## The 2023 University Physics Competition Results Announcement – January 17, 2024

We are very pleased to announce the results of the fourteenth annual University Physics Competition. The University Physics Competition is an international contest for undergraduate students, who worked in teams of up to three students at their home colleges and universities all over the world, and spent 48 hours during the weekend of November 3, 4, & 5, 2023, analyzing a scenario using the principles of physics, and writing a formal paper describing their work.

In this year's competition 466 teams submitted papers for judging. 322 teams selected "Problem A – Space Diving" and 144 teams selected "Problem B – Trampoline Jumping."

For Problem A, the Gold Medal Winning Teams were:

Team 131: Guo Runshuang, Wu Juntao, & Chen Ruiyang Institution: Shanghai Jiao Tong University Joint Institute

Faculty Sponsor: Qu Zijie

Team 227: Chengrong Ye, Xinyan Gong, & Lingwei Zhang Institution: Shanghai Jiao Tong University Joint Institute

Faculty Sponsor: Zijie Qu

Team 244: Jiatui Gu, Nan Jiang, & Ziyu Xu

Institution: Shanghai Jiao Tong University Joint Institute

Faculty Sponsor: Xiaofen Li

Team 355: Hong ZiYang, Su ZhaoHan, & Hu Yi

Institution: Tongji University Faculty Sponsor: Ma Yan

Team 447: Yuan Weijie, Song Zuotao, & Shi Ziming Institution: National University of Defense Technology

**Faculty Sponsor: Xu Xinrong** 

Team 464: Peng Haoyang, Yang Haikun, & Zhong Rui Institution: National University of Defense Technology

**Faculty Sponsor: Zhang Sen** 

For problem B, the Gold Medal Winning Teams were:

Team 102: Wang Xuanyu, Dong Kunkai, & Huang Binyang

**Institution: Beijing Normal University** 

Faculty Sponsor: Wang Aiji

Team 138: Yanze Yu, Xinzhe Juan, & Mingrui Li

Institution: Shanghai Jiao Tong University Joint Institute

Faculty Sponsor: Zijie Qu

Team 471: Jerzy Gamdzyk, Jan Kossacki, & Andrzej Tyc

Institution: University of Warsaw Faculty Sponsor: Michał Zdziennicki

Of the 466 papers submitted in this year's University Physics Competition, 9 teams (1.9%) were ranked as Gold Medal Winners, 86 teams (19%) were ranked as Silver Medal Winners, 125 teams (27%) were ranked as Bronze Medal Winners, and 246 teams (53%) were ranked as Accomplished Competitors.

We extend our sincerest congratulations to each of the competing teams for their excellent work and their enthusiasm for physics!

Kelly S. Cline

Carroll College; Helena, Montana, United States Director of the University Physics Competition www.uphysicsc.com

13	1 Qu Zijie Shanghai Jiao Tong University Joint Institute	Α	Gold Medal
	Guo Runshuang, Wu Juntao, Chen Ruiyang		
22	7 Zijie Qu Shanghai Jiao Tong University	Α	Gold Medal
	Chengrong Ye, Xinyan Gong, Lingwei Zhang		
24	4 Xiaofen Li Shanghai Jiao Tong University Joint Institute	Α	Gold Medal
	Jiatui Gu, Nan Jiang, Ziyu Xu		
35	5 MA Yan Tongji University	Α	Gold Medal
	Hong ZiYang, Su ZhaoHan, Hu Yi		
44	7 Xu Xinrong National University of Defense Technology	Α	Gold Medal
	Yuan Weijie, Song Zuotao, Shi Ziming		
46	4 Zhang Sen National University of Defense Technology	Α	Gold Medal
	Peng Haoyang, Yang Haikun, Zhong Rui		
10	1 Bai Zaiqiao Beijing Normal University	Α	Silver Medal
	Zuo Xueyang, Hu Xuyang, Liu Junran		
10	3 Xiaofen Li Shanghai Jiao Tong University	Α	Silver Medal
	Yijie Liao, Yufei Gao, Jiangshan Peng		
10	8 Qu Zijie Shanghai Jiao Tong University Joint Institute	Α	Silver Medal
	Zhou Fengming, Liu Junyuan, Yu Yue		
11	1 Zijie Qu Shanghai Jiao Tong University Joint Institute	Α	Silver Medal
	Keyuan Hu, Chuhan Cai, Yangrui Meng		
13	9 Zijie Qu Shanghai JiaoTong University	Α	Silver Medal
	Mo Li, Zhiheng Li, Yang Hu		
14	2 Zijie Qu Shanghai Jiao Tong University	Α	Silver Medal
	Zixiang Lin, Shengheng Chen, Yuanjie Chen		
15	3 Haiping Wu Nanjing University of Science and Technology	Α	Silver Medal
	Weixiang Fu, Boyu Sun, Zhuoyang Li		
15	4 Haiping Wu Nanjing University of Science and Technology	Α	Silver Medal
	Linghu Yaxi, Zhang Xuzhe, Zhang Xuhe		
16	5 Haiping Wu Nanjing University of Science and Technology	Α	Silver Medal
	Jiashuo Liu, Heng Jiang, Kesheng Liu		
16	6 Haiping Wu Nanjing University of Science and Technology	Α	Silver Medal
	Yijie Huang, Yunhan Ye, Pengwei Yang		
17	O Haiping Wu Nanjing University of Science and Technology	Α	Silver Medal
	Zhentian Wang, Junhao Ma, Junnong Tian		
18	O Haiping Wu Nanjing University of Science and Technology	Α	Silver Medal
	Siyi Xie, Kaiwei Gao, Jireh Fan		
18	4 Kai Chen Nanjing University of Science and Technology	Α	Silver Medal
	Shengyu Fang, Ruichen Li, Wenxuan Jia		
18	5 Haiping Wu Nanjing University of Science and Technology	Α	Silver Medal
	Hanbing Zhou, Yongjian He, Fengli Huang		
18	7 Haiping Wu Nanjing University of Science and Technology	Α	Silver Medal
	Xingyuan Ji, Dong Zheng, Xin Zhong		
19	9 Kai Chen Nanjing University of Science and Technology	Α	Silver Medal
	Zeng Yihan, Wang Yikai, Li Kaiwei		

208	Qu Zijie	Shanghai Jiao Tong University	Α	Silver Medal
	Wei Yushan, Lu Wenye, War	ng Zeming		
218	Haiping Wu	Nanjing University of Science and Technology	Α	Silver Medal
	Songlin Zheng, Zhouwen He,			
231	Qu Zijie	Shanghai Jiao Tong University	Α	Silver Medal
	Wu Junying, Qiu Jier, Zhu Bo	yuan		
243	Haiping Wu	Nanjing University of Science and Technology	Α	Silver Medal
	Jiang Xiaozhe, Sun Yongze, X	u Chi		
252	Zijie Qu	Shanghai Jiao Tong University	Α	Silver Medal
	Kangyu Sun, Enze Zhang, Ziy	un Xu		
253	Zijie Qu	Shanghai Jiao Tong University	Α	Silver Medal
	Wu Yichen, Sun Yichen, Xiao	Jiakai		
265	Qu Zijie	Shanghai Jiao Tong University	Α	Silver Medal
	Feng Ying, Xia Shiqing, Huan	g Dingbang		
274	Md Enamul Hoque	Shahjalal University of Science and Technology	Α	Silver Medal
	Muhammed Sakil Hussain, K	azi Mahmudur Rahman, Shourav Somodder		
300	Ma Yan	Tongji University	Α	Silver Medal
	Gong Yi Cheng			
316	Xun Zhipeng	China University of Mining and Technology	Α	Silver Medal
	Su Meng, Yang Haijing, Zhan	g Dingwen		
322	Haiping Wu	Nanjing University of Science and Technology	Α	Silver Medal
	Huaiyi Shi, Jiajie Shen, Guiqir	ng Shao		
327	Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Silver Medal
	M.Morsedur Rahman, Sabih	a Rubiatunnesa, Sajid Fardin Dipto		
364	Fang Kai	Tongji University	Α	Silver Medal
	Li Mengan, Han Xinyi, Xue Ya	ahui		
366	Fang Kai	Tongji University	Α	Silver Medal
	Zhang Boyi, Chen Weixin, W	u Haoran		
371	Zhang Jianwei	Tongji University	Α	Silver Medal
	Wang Mingwei, Shen Junhao			
373		Tongji University	Α	Silver Medal
	Huang Bolin, Cheng Tianzhuo	o, Wang Xiaohan		
411	•	Hebei Normal University	Α	Silver Medal
	Qu Qingle, Song Yuanze, Yue			
432	•	National University of Defense Technology	Α	Silver Medal
	Shi Zhengwei, Wei Xiongwei			
433	· ·	National University of Defense Technology	Α	Silver Medal
	Wang Fujie, Liu Tong, Wu Xir			
435		National University of Defense Technology	Α	Silver Medal
	Wang Mingyue, Yan Junming			
436	_	National University of Defense Technology	Α	Silver Medal
	Li Yuanhang, Zhang Yiyin, Li	-		
438	·	National University of Defense Technology	Α	Silver Medal
	Yang Zhuo, Ni Hao, Zhu Kaiyi			
439		National University of Defense Technology	Α	Silver Medal
	Ye Huicheng, Su Qifeng, Guo	Ruiduo		

440	) Liu Yonglu	National University of Defense Technology	Α	Silver Medal
	Fan Wengang, Zhang Yingji	e, Tan Shenzhong		
445	5 Liu Yonglu	National University of Defense Technology	Α	Silver Medal
	Wang Chuntai, Lin Changta	i, Qin Longyu		
448	3 Yu Tongpu	National University of Defense Technology	Α	Silver Medal
	Zhang Yifei, Hu Jiacheng, G	u Wangqi		
449	Peng Gang	National University of Defense Technology	Α	Silver Medal
	Huang Yingzi, Liu Bei, Wu X	liuping		
450	Peng Gang	National University of Defense Technology	Α	Silver Medal
	Xue Zhexi, Lin Chenhao, Xie	e Ziqin		
454	1 Hu Lixiang	National University of Defense Technology	Α	Silver Medal
	Quan Yushi, Zhang Shengka	ai, Qu Qian		
456	5 Liu Yonglu	National University of Defense Technology	Α	Silver Medal
	Yang Dandan, Huo Sihan, L	iu Xinyu		
459	9 Zou Debin	National University of Defense Technology	Α	Silver Medal
	Fan Yujie, Sun Maoxuan, Lo	ou Ruizhe		
463	3 Liu Yonglu	National University of Defense Technology	Α	Silver Medal
	Wang Pu, Li Junchi, Liu Che	enxuan		
466	5 Yu Tongpu	National University of Defense Technology	Α	Silver Medal
	Xu Yixin, Xu Senke, Tian Zh	irong		
469	Michał Zdziennicki	University of Warsaw	Α	Silver Medal
	Joanna Mędrzycka, Krzyszt	of Dankowski, Maciej Szyszko		
472	2 Michał Zdziennicki	University of Warsaw	Α	Silver Medal
	Gniewoj Michalewski, Filip	Baciak, Mateusz Kamiński		
479	9 Li Du	Shanghai Jiao Tong University	Α	Silver Medal
	Yue Yin, Yiming Hu, Kexu C	hen		
513	l Shiyong Liu	Shanghai Jiao Tong University	Α	Silver Medal
	Ziqi Sun, Ruoyan Wang, Zh	aoyang Liu		
537	7 Ma Yan	Tongji University	Α	Silver Medal
	Tao Ye, Sun Yize, Liu Hanya	ing		
544	1 Cesar Bonilla	Universidad Católica del Norte	Α	Silver Medal
	Ethan Rodríguez, Benjamin	Ramallo, Felipe Tabilo		
566	6 Carlos Alvarado	Vassar College	Α	Silver Medal
	Kishan Patel, Amanda Flore	es, David Tai		
615	Md. Tareq Mahmud	University of Dhaka	Α	Silver Medal
	Muhammad Arif Hussain, E	Emon Hossain, Md. Badhan Mridha		
630	Qi Xinshe	National University of Defense Technology	Α	Silver Medal
	Yu Heyang, Zhou Yuhang, T	ang Siwei		
649	Md. Azmain Yakin Srizon	Rajshahi University of Engineering & Technology	Α	Silver Medal
	Mohammad Ishtiaq Ahmed	d, Deba Priyo Guha,		
524-1	L Ma Yan	Tongji University	Α	Silver Medal
	Nie Qiwen, Fang Dongyu			
110	) Zijie Qu	Shanghai Jiao Tong University Joint Institute	Α	Bronze Medal
	Zaixi Chen, Fangjie Gao, Ya	oxing Lu		
117	7 Liu Meijie	Qingdao University	Α	Bronze Medal
	Sun Yutong, Gong Kecheng	, Tang Qingyun		

118	Hu Yanmin	Civil Aviation University of China	Α	Bronze Medal
	Lu Tao, Yao Yuke, Yang Tiar	nqi		
150	Haiping Wu Zirui Xu, Wentao Li, Yinan Y	Nanjing University of Science and Technology	Α	Bronze Medal
152		Nanjing University of Science and Technology	Α	Bronze Medal
	Yangjie He, Haifeng Gao, Zil		^	biolize Medai
	==	Nanjing University of Science and Technology	Α	Bronze Medal
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167		Nanjing University of Science and Technology	۸	Bronze Medal
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171	Manye Dong, Linghui Wu, Y		۸	Bronze Medal
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171	Liu Zitian, Wu Yiheng, Pan Z		۸	Bronze Medal
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177	Chenyang Dan, Shouyu Jin,		^	Duana Madal
1//		Nanjing University of Science and Technology	Α	Bronze Medal
470	Jinfeng Wang, Zhuoshi Liu,		^	Duana Madal
1/8		Nanjing University of Science and Technology	Α	Bronze Medal
470	JingQiu Xu, FeiYu Xiao, LiuV		•	D Na l . l
1/9	Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
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182	· -	Nanjing University of Science and Technology	Α	Bronze Medal
	Songran Xu, Liyang Jing, Ke			
194	-	Nanjing University of Science and Technology	Α	Bronze Medal
	Zhou Zhou, Xuming Wang,			
202		Nanjing University of Science and Technology	Α	Bronze Medal
	Shuo Li, Jiawei Fu, Bolun Liu			
206	Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
	Yang Wang, Ye Shen, Huang			
210		Nanjing University of Science and Technology	Α	Bronze Medal
	Zhuonuo Shen, Ziran Zhou,			
211	Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
	Chenyang Ji, Yuxin Huang, F			
226	Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
	Zhijie Wang, Yichen Yu, Xiao	oyue Zhou		
229	Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
	Gong Haoxiong, Geng Yaox	iong, Ding Zhixing		
232	Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
	Qiyu Fan, Bolun Chen, Yunr	u Chen		
235	Zijie Qu	Shanghai Jiao Tong University Joint Institute	Α	Bronze Medal
	Xinyu He, Yuetong Ding, Ch	enye Cao		
236	Zijie Qu	Shanghai Jiao Tong University Joint Institute	Α	Bronze Medal
	Yufei Zhu, Yanzhen Su, Jing	yu Liu		
238	Qu Zijie	Shanghai Jiao Tong University	Α	Bronze Medal
	Zhang Haiyue, Su Zijian, Ha	n Yunwei		
245	Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
	Jing Liu, Ruixuan Li, Wenwe	en Yu		

247	Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
,	Junjie Cui, Yao Gu, Hongyu		, ,	Dronze medai
256	Qu Zijie	Shanghai Jiao Tong University	Α	Bronze Medal
	Zhao Guojiao, Chen Bingan,			
263		Nanjing University of Science and Technology	Α	Bronze Medal
	Jiaying He, Ning Zhou, Weiz			
266		Chongqing University of Posts and Telecommunications	Α	Bronze Medal
	Shuijie Zhang, Wenzhe Ding	g, Chenxu Wang		
268	Qu Zijie	Shanghai Jiao Tong University	Α	Bronze Medal
	Chen Anyang, Shen Ming, C	ui Shuyuan		
281	Zhang Yaolei	Qilu University of Technology	Α	Bronze Medal
	Cao Zhongkun, Wei Chaozh	eng, Li Bo		
284	Zhang Yujin	Qilu University of Technology	Α	Bronze Medal
	Wang Dianshuo, Xia Fanjin,	Sun Hui		
285	Sun Jie	Qilu University of Technology	Α	Bronze Medal
	Chen Xiangpeng, Hao Xingk	ai, Bu Nan		
301		Bangladesh University of Engineering and Technology	Α	Bronze Medal
	Mehede Hasan, Nazmus Sa			
302	Zijie Qu	Shanghai Jiao Tong University Joint Institute	Α	Bronze Medal
	Chengrui Wu, Qijun Wang,			
309	Nazia Chawdhury	Shahjalal University of Science and Technology	Α	Bronze Medal
	K.M. Shariat Ullah, Antu Ro	•		
312	Xi Chen	Xi'an Jiaotong-Liverpool University	Α	Bronze Medal
	Yuxuan Han, Runqi Zhu, Siri	_		
325	Hu Wei	Qilu University of Technology	Α	Bronze Medal
	Yu Zihan, Liang Qingru			
328	Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Bronze Medal
	Tanha Anil, Nawsheen Shar			
330	Jaseer Ahmed	Shahjalal University of Science and Technology	Α	Bronze Medal
252		Sumaya Islam Chowdhury, Taslima Akter Tinni	^	
353	Ma Yan	Tongji University	Α	nze Medal

384 Zhang Jianwei	Tongji University	Α	Bronze Medal
Dong Jiakai			
385 Zhang Jianwei	Tongji University	Α	Bronze Medal
Xiao RanYu, Peng Yao, Ta	ao ZeYu		
388 Zhang Jianwei	Tongji University	Α	Bronze Medal
Ning Xuanjing, Zhang Jiny	yue, Shi Hongyu		
393 Zhang Yingli	Tongji University	Α	Bronze Medal
Xu Shuyang			
395 Zhang Yingli	Tongji University	Α	Bronze Medal
Cheng Zike, Zhou Han			
410 Xiaoying Pang	Xi'an Jiaotong-liverpool University	Α	Bronze Medal
Shengyang Gao, Fanpei L	iu, Zizhou Jia		
422 Ma Yan	Tongji University	Α	Bronze Medal
Zhaoshu Yu, Guanheng R	en, Nuo Xu		
429 Ma Yan	Tongji University	Α	Bronze Medal
Ma Haoxuan			
441 Peng Gang	National University of Defense Technology	Α	Bronze Medal
He Yongjie, Xie Rongsher			
442 Zhang Sen	National University of Defense Technology	Α	Bronze Medal
Cheng Zan, Liu Yaqing, Sh			
451 Yi Wenjun	National University of Defense Technology	Α	Bronze Medal
Wang Zhangling, Wei Yin		_	
455 Yu Tongpu	National University of Defense Technology	Α	Bronze Medal
Qiu Qunya, Xiao Ziyue, G			
460 Peng Gang	National University of Defense Technology	Α	Bronze Medal
Yang Yu, Lu Ping, Yi Pan	Noticed Heiragite of Defence Technology	۸	Draws Madal
462 Chen Jumei	National University of Defense Technology	Α	Bronze Medal
Wang Yi, Hu Xinyu, Wang 486 Tran Thi Mai		۸	Bronze Medal
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492 Ma Yan	Tonggi University	Α	Bronze Medal
Mu Qun, Yang Jiarun	Tongh oniversity	^	bronze wiedar
507 Qu Zijie	Shanghai Jiao Tong University	Α	Bronze Medal
Li Yanzhi, Wu Xinyuan, Zi	·	,,	Bronze Wieddi
509 Li Yanqiang	Qingdao University	Α	Bronze Medal
Zhang Yao, Yin Xiangru, N	,		
513 Chunhong Long	Chongqing University of Posts and Telecommunications	Α	Bronze Medal
Rongyu Wang, Xue Wang			
520 Anock Somadder	Shahjalal University of Science and Technology	Α	Bronze Medal
Tanmoy Bhowmik, Joy Pa	al Barua, Hasibul Islam Humidy		
525 Ma Yan	Tongji University	Α	Bronze Medal
Wang Haichao			
542 Md.Enamul Hoque	Shahjalal University of Science And Technology Sylhet	Α	Bronze Medal
Md. Jahidul Islam, Md.Ba	ıkibilla Matubbar, Md. Didarul Islam		
545 Cesar Bonilla	Universidad Católica del Norte	Α	Bronze Medal
Matías González, Matías	Muñoz, David Rojas		

546 Michal Kwasigroch	Cambridge University	А	Bronze Medal
William Deng, Kevin Shad	o, Connor Wong		
548 Yanqiang Li	Qingdao University	Α	Bronze Medal
Hua Liu, Shuaiyu Wu, She	enghan You		
553 Geldimuhammedov Akm	yraThe State Energy Institute of Turkmenistan	Α	Bronze Medal
Kerimov Yhlas, Bahtiyaro	v Merdan, Annagulyyev Govshut		
558 Wenjuan Lin	Qingdao University	Α	Bronze Medal
Renrui Chen, Mingbo Yar	ng, Xinglin Liu		
570 Li Yanqiang	Qingdao University	Α	Bronze Medal
Li Wenhuai, Wang Wenh	ui, Zhang Zhongsheng		
587 Wang Xin	National University of Defense Technology	Α	Bronze Medal
Chenyaxiu, Liujize, Chen	Wuyang		
588 Dong Chen	National University of Defense Technology	Α	Bronze Medal
Guo Junjie, Sun Xin, You	Jiatai		
602 Edwin Greco	Georgia Institute of Technology	Α	Bronze Medal
Conor Fitzmaurice, Ange	lina Zhang, Tanmay Gupta		
608 Md. Kamal Hossain	Jahangirnagar University	Α	Bronze Medal
Md. Rahamat Ullah Nadi	m, Sanzida Hossain Maria, Md. Abu Rayhan		
617 Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
Yu Zhu, Xinyuan Liu, Kere	en Li		
632 Wu Yong	National University of Defense Technology	Α	Bronze Medal
Wang Binnian, Zhou Bao			
633 Haiping Wu	Nanjing University of Science and Technology	Α	Bronze Medal
Yaobin Zhu, Le Yu, Xiangi			
635 Qixin She	National University of Defense Technology	Α	Bronze Medal
Liu Han, Xie Xingrui, Xiao			
636 Gao Cuicui	National University of Defense Technology	Α	Bronze Medal
Wang Zhe, Teng Mingjun			
650 Nelia Jurado Pontes	-	Α	Bronze Medal
Junrong Yang, Zirui Liao			
105 Mim Mashrur Ahmed	Rajshahi University of Engineering and Technology	Α	Acc. Competitor
	ssain Bulbul, Rajesh Majumder		, , , , , , , , , , , , , , , , , , ,
106 A K Nanda Kumar	Amrita Vishwa Vidyapeetham	Α	Acc. Competitor
Lakshmi TR, Sandhya S, R			
109 Zhang Yongcheng	Qingdao University	Α	Acc. Competitor
Zhao Chunyang, Liu Yuto		, ,	ricci competito.
112 Zijie Qu	Shanghai Jiao Tong University Joint Institute	Α	Acc. Competitor
Yu Yongrui, Zhou Shiyi, X		,,	rice. competitor
119 Zijie Qu	Shanghai Jiao Tong University Joint Institute	Α	Acc. Competitor
Zewei Ye, Tianye Xv, Zhe			Acc. competitor
121 Bole Chen	Chongqing University of Posts and Telecommunications	Α	Acc. Competitor
Tianyan Yuan, Jianxiong I		^	Acc. competitor
124 Hu Yanmin	Civil Aviation University of China	٨	Acc. Competitor
Shi Leihao, Chen Yudong		А	Acc. Competitol
125 Quazi Muhammad Rashe		Α	Acc. Competitor
Md. Shamsul Alam Mahf		A	Acc. Competitor
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128 Ruiheng Pan	Chongqing University of Posts and Telecommunications	Α	Acc. Competitor
Houbo Li, Shuang Yang,			р
132 Liyan Hong	Chongqing University of Posts and Telecommunications	Α	Acc. Competitor
Yunyi Zhou, Tao Liu, Xia	ohan Wu		
141 Héctor Miguel Mejía Día	az Universidad Nacional Autónoma de México	Α	Acc. Competitor
Pedro Gabriel Estrada G	allegos, Erubey Morales Teofilo, Guillermo Sierra López		
143 Zijie Qu	Shanghai Jiao Tong University	Α	Acc. Competitor
Yuming Chen, Tengxi Ye	, Minghao Tang		
148 Shyamal Ranjan Chakra	bort Chittagong University	Α	Acc. Competitor
Mariem Absar			
149 Haiping Wu	Nanjing University of Science and Technology	Α	Acc. Competitor
Yuecheng Zhao, Yixuan	Wang, Qingxi Hou		
155 Wang Guangan	Nanjing University of Science and Technology	Α	Acc. Competitor
Xue Qi, Cao Yu, Liu Jiang	gjun		
156 Haiping Wu	Nanjing University of Science and Technology	Α	Acc. Competitor
Ziyang Shen, Chen Yang			
157 Haiping Wu	Nanjing University of Science and Technology	Α	Acc. Competitor
Xinyan Zhang, Wangqin			
158 Haiping Wu	, , , , , , , , , , , , , , , , , , , ,	Α	Acc. Competitor
Lufan Zhang, Shanyu Li,			
159 Haiping Wu	,	Α	Acc. Competitor
Zixin Huang, Yuxin Zhan			
· · ·	Nanjing University of Science and Technology	Α	Acc. Competitor
Chenghao Yang, Huacha		_	
161 Haiping Wu	Nanjing University of Science and Technology	Α	Acc. Competitor
Leyang Li, Xinyu Gao, Xi		_	
162 Haiping Wu	, , , , , , , , , , , , , , , , , , , ,	Α	Acc. Competitor
Zhenqiang Lin, Wengjur			A C
164 Haiping Wu	Nanjing University of Science and Technology	Α	Acc. Competitor
JiaHe Qu, PengCheng W		۸	Ass Compositor
168 Haiping Wu	Nanjing University of Science and Technology	А	Acc. Competitor
Yuhao Dong, Yuqing We 169 Haiping Wu	Nanjing University of Science and Technology	٨	Acc Compositor
Zhou Fang, Junxin Wang	, ,	А	Acc. Competitor
172 Haiping Wu	Nanjing University of Science and Technology	А	Acc. Competitor
Wenle Ji, Haoxuan Shi, 2		7	Acc. competitor
173 Haiping Wu	Nanjing University of Science and Technology	А	Acc. Competitor
Baisen Wang, Yanli War		,,	Acc. competitor
188 Haiping Wu	Nanjing University of Science and Technology	А	Acc. Competitor
Zeyuan Wang, Yuanjin X	, , , , , , , , , , , , , , , , , , , ,	, ,	Acc. competitor
189 Haiping Wu	Nanjing University of Science and Technology	А	Acc. Competitor
BinJie Liao, YiMing Gong			
190 Haiping Wu	Nanjing University of Science and Technology	Α	Acc. Competitor
Shaobo Nie, Yuzhe Wan			
192 Haiping Wu	Nanjing University of Science and Technology	Α	Acc. Competitor
Wanting Ye, Ruihan Zho			,
198 Haiping Wu	Nanjing University of Science and Technology	Α	Acc. Competitor
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## Yangfeng Yin, Yifan Zhang, Zhiming Yu

200 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Shenjian Gu, Yuda Meng, Jiangyue Chen		
201 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Yao Wenjie, Hu Ye, Dai Shuai		
203 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Chengjun Feng, Zixun Zhang, Jun Lin		
205 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Bin Xiong, Shiming Gan, Jianbo Hu		
212 Guangan Wang Nanjing University of Science and Technology	Α	Acc. Competitor
Chengye Liang, Keqing Ji, Xinyi Li		
214 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Jiani Xue, Zhuohang Li, Binyan Jiang		
215 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Ding Ye, Wang Dongyang, Su Yixiang		
216 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Liu Peiyu, Feng Xing, Liu Yonghui		
217 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Jue Wang, Tianshuo Xie, ZiHan Tang		
219 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Manjiang Dong, Chuchen Feng, Sijia Qin		·
225 Haiping Wu Nanjing University of Science and Technology	Α	Acc. Competitor
Zhihao Sun, Jingyi Du, Changxu Ni		
230 Qu Zijie Shanghai Jiao Tong University	Α	Acc. Competitor
Zhu Zimo, Fan Junyu, Huang Yikang		
246 Qu Zijie Shanghai Jiao Tong University	Α	Acc. Competitor
Huang Han, Shi Weiyi, Heong KuokPeng		
249 Zijie Qu Shanghai Jiao Tong University	Α	Acc. Competitor
Zhuoyang Chen, Runqiu Wang, Xu Zhang		·
254 Sedighe Sajadian Isfahan University of Technology	Α	Acc. Competitor
Nazanin Madakhel, Yalda Ebrahimi		
259 Qu Zijie Shanghai Jiao Tong University	Α	Acc. Competitor
Luo Hongyi, Shen Yuqian, Xue Tianle		·
262 Zijie Qu Shanghai Jiao Tong University	Α	Acc. Competitor
Cheng Yang, Zhengyang Fu, Diyan Fu		
264 Shaomeng Qin Civil Aviation University of China	Α	Acc. Competitor
Longbao Guan, Zifan Zheng, Linkang Dai		
271 Xu Yulong Qilu University of Technology	Α	Acc. Competitor
Wei Jiajie, Zeng Chuiyang, Huang Yingcun		
272 Guo Li Qilu University of Technology	Α	Acc. Competitor
Yang Zhongliang, Luo Weikang, Yi Dezheng		
273 Guo Li Qilu University of Technology	Α	Acc. Competitor
Yan Keang, Jin Shuo, Li Peixin		
275 Lei Jie Qilu University of Technology	Α	Acc. Competitor
Zhang Qi, Xu Zhangkai, Gu Renchen		

27	7 Zhang Meina	Qilu University of Technology	Α	Acc. Competitor
	Zhu Yanqin, Han Yantong, V			
278	3 Zhang Meina Wang Jing, Sun Ang, Zhang	Qilu University of Technology	Α	Acc. Competitor
282		Qilu University of Technology	Α	Acc. Competitor
	Shao Jingwen, Wang Yuge,	Ge Tiantian		
283		Qilu University of Technology	Α	Acc. Competitor
	Yang Lijuan, Chen Liang, Go			
280	Sun Jie	Qilu University of Technology	Α	Acc. Competitor
	Wang Yanbo, Tian Di, Liu Jia			
28	7 Sun Jie	Qilu University of Technology	Α	Acc. Competitor
	Sun Wenyu, Qiu Wenxin, Yı			
288	3 Sun Jie	Qilu University of Technology	Α	Acc. Competitor
	Zhang Sidong, Xing Changxi	n, Zhu Enyun		
289	9 Sun Jie	Qilu University of Technology	Α	Acc. Competitor
	An Xu, Li Wuze, Wang Zhiyu	ıan		
290	) Sun Jie	Qilu University of Technology	Α	Acc. Competitor
	Li Yuheng, Yang Hai, Liu Gu	ancheng		
29:	L Leng Jiancai	Qilu University of Technology	Α	Acc. Competitor
	He Yan, Dou Yuhang, Zhao	Xinyu		
292	2 Leng Jiancai	Qilu University of Technology	Α	Acc. Competitor
	Lu Zhaoxin, Zhang Rui, Liu (	Qingsong		
293	B Leng Jiancai	Qilu University of Technology	Α	Acc. Competitor
	Li Jianjun, Liu Xinjia, Zhu Sh	uang		
294		Qilu University of Technology	Α	Acc. Competitor
	Zhang Tongxu, Xu Xuezhen			
298	3 Qu Zijie	Shanghai Jiaotong University	Α	Acc. Competitor
	Xu Chenhong, Ying Yichen,	Zhu Ming		
30!	5 Qu Zijie	Shanghai Jiao Tong University Joint Institute	Α	Acc. Competitor
	Zhou Lekang, Gu JingYu, Liu	ı Junjie		
308	3 Zijie Qu	Shanghai Jiao Tong University Joint Institute	Α	Acc. Competitor
	Haoyuan Shi, Yunzhu Deng,	Yanbei Zhou		
31	L Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Acc. Competitor
	Faria Afrin Tisha, Nafia Islar	n Shishir, Md. Shafayat Tazoar		
313	B Hao Yu	Xi'an Jiaotong-Liverpool University	Α	Acc. Competitor
	Wenshan Pu, Bowen Duan,	Zihan Xu		
31	5 Yanyan Zhang	Qingdao City University	Α	Acc. Competitor
	Li Kun, Xiao Xiangqing, Zho	u Shaoyi		
31	7 Du Jing	Qingdao City University	Α	Acc. Competitor
	Qiang Lianjie, Guo Wenhao			
319	Gao Qiang	Qingdao City University	Α	Acc. Competitor
	Zhang Yunli, Liu Guangyang			•
320	) Joel C. Berlinghieri	The Citadel	Α	Acc. Competitor
	Roy A. Humphreys, Mitchel	L. Huott, Jerry W. Johns		•
32	L Zijie Qu	Shanghai Jiao Tong University	Α	Acc. Competitor
	Linglong Qian, Yuwei Zhuo,	·		•
		-		

326 Yanqiang Li	Qingdao University	Α	Acc. Competitor
Jiaqi Wang, Jinrui Ru, Bow	ven Yang		
333 Li Zhengyuan	Qingdao City University	Α	Acc. Competitor
Yang Cunxu, Yang Haibing	r, Zhong Yiyang		
334 Andrew Fowlie	Xi'an Jiaotong-Liverpool University	Α	Acc. Competitor
Zhenbang.Yang, Pinyue.Zl	hang, Jiacheng.Wei		
335 Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Acc. Competitor
Md. Rezwan Hossain, Sad	ia Afrin, Mahatab Uddin Sakib		
336 Xi Chen	Xi'an Jiaotong-Liverpool University	Α	Acc. Competitor
Fangzhou.Wang, Chennar	n.Zeng		
339 Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Acc. Competitor
Nabila Ferdous, Jasmin M	ustary, Afsara Fariha Mity		
340 Jianbao Yue	Qingdao City University	Α	Acc. Competitor
Qirui Tang, Houbin Zhou,	Zhikai Qu		
342 Pang Xiaojuan	, 5	Α	Acc. Competitor
Lin Rui, Li Datao, Sha Xinx			
	Rajshahi University of Engineering and Technology	Α	Acc. Competitor
	Haque Neha, Sanjida Sara		
351 Ma Yan	Tongji University	Α	Acc. Competitor
He JinZhao, Xiao ZhiHui, L			
352 Ma Yan	Tongji University	Α	Acc. Competitor
Tang Yiheng, Qiao Kenuo			
358 MA Yan	Tongji University	Α	Acc. Competitor
Lei Xu, Zhang HongYi, Fu I			
359 MA Yan	Tongji University	Α	Acc. Competitor
Yan Lizheng			
362 Fang Kai	Tongji University	Α	Acc. Competitor
Feng Bo, Xiong Xin, Wang			
377 Zhang Jianwei		Α	Acc. Competitor
Wu Yifan, Liang Li, Zhou Ji			
379 Zhang Jianwei	Tongji University	Α	Acc. Competitor
Shi Zihan, Liu Jie			
381 Zhang Jianwei	Tongji University	Α	Acc. Competitor
Deng Yan, Wang Siyu			
383 Zhang Jianwei	Tongji University	Α	Acc. Competitor
Li Peiyang, Yang Yaobin, Z			
392 Zhang Yingli	Tongji University	Α	Acc. Competitor
Liu Qibo, Liu Xi , Cao Hong			A C
394 Zhang Yingli	Tongji University	Α	Acc. Competitor
Liu Shunji, Zhang Yaotian,		٨	Ass Compositor
396 Zhang Yingli	Tongji University	Α	Acc. Competitor
Wang Zexuan, Si Wen, Zh	_	٨	Acc Compositor
398 Zhang Yingli	Tongji University	Α	Acc. Competitor
Gao RuiChao, Chen Mingv 402 Arthur Moraes	Xi'an Jiatong Liverpool University	Α	Acc. Competitor
Yang Luo, Weipeng Xie, Xi	,	^	Acc. Competitor
rang Luo, weipeng Ale, A	iliyi vvalig		

4	03 Qu Zijie	Shanghai Jiao Tong University	Α	Acc. Competitor
	Xu Guanyu			
4	05 Oishi Jyoti Mahbub Uz Zaman, Nazif	Rajshahi University of Engineering and Technology a Anjum, Mst. Shamsun Nahar Shaishab	Α	Acc. Competitor
4	09 Qu Zijie	Shanghai JiaoTong University Joint Institute	Α	Acc. Competitor
	Guo Chang, Hong Yicheng		,,	redi competitor
1	14 Thijs Kouwenhoven	-	Α	Acc. Competitor
7	Haoyuan Ding, Yichen Xu			Acc. competitor
1	15 Ma Yan	Tongji University	Α	Acc. Competitor
_	Chen Yingqi	Tongji oniversity	^	Acc. Competitor
1	<del>-</del> •	XJTLU	٨	Acc Compositor
4	16 Neils Gresnigt	AJILO	Α	Acc. Competitor
4	Xiao Lan, Jieshi Li	Mhulas Haireaith	۸	Ass Commotites
4	18 Torikul Islam	Khulna University	Α	Acc. Competitor
		a Mondol, Ashifujjaman Sourav		
4	19 Ma Yan	Tongji University	Α	Acc. Competitor
_	Li YongKang, Zhang Rongl	-		
4	21 Xiuhui Chen	Qingdao City University	Α	Acc. Competitor
	Yang Song, Wentao Zhao,			
4	23 Ma Yan	Tongji University	Α	Acc. Competitor
	Qin Xiao, Wu XinYi			
4	24 Md. Azmain Yakin Srizon	, , , ,	Α	Acc. Competitor
	Mohd. Tousif-E-Khuda, Sp	pandan Basu, Susmita Paul		
4	28 Ma Yan	Tongji University	Α	Acc. Competitor
	Pan Yongwei			
4	53 Yu Tongpu	National University of Defense Technology	Α	Acc. Competitor
	Zhong Fengrong, Sun Xun	, Li Zihao		
4	75 Li Xiaofen	Shanghai Jiao Tong University	Α	Acc. Competitor
	Xiong Zhenxiang			
4	82 Shyamal Ranjan Chakrabo	ort University Of Chittagong	Α	Acc. Competitor
	Arka Biswas Saikot			
4	84 Li HongSen	Qingdao University	Α	Acc. Competitor
	Han Bin, Chen JiaXu, Zu G	uangyue		
4	85 Denis Tramonte	Xi'an Jiaotong-liverpool University	Α	Acc. Competitor
	Jin ZhiShuo, Liu YuTong			
4	87 Zijie Qu	Shanghai Jiao Tong University Joint Institute	Α	Acc. Competitor
	Zhiyuan Ning, Yu'en Luo,	Chengzhuo Guo		
4	90 Meenakshi Viswanathan	Birla Institute of Technology and Science	Α	Acc. Competitor
	Shyam Girish Kolegudu, Y	uva Himanshu, Pranav Vasishta		
4	91 Oishi Jyoti	Rajshahi University of Engineering and Technology	Α	Acc. Competitor
	Ruhina Tabasshum Prome	e, Bushra Farzin, Faisal Hossain Raquib		•
4	95 Thijs Kouwenhoven	Xi'an Jiaotong-Liverpool University	Α	Acc. Competitor
	BoYun Pang, HaoFei Wan	·		,
4	98 Oishi Jyoti	Rajshahi University of Engineering and Technology	Α	Acc. Competitor
-	•	ilu Fateha, Marjana Khanam Roza		1
5	06 Wu Hong	Chongqing University of Posts and Telecommunications	Α	Acc. Competitor
J	Liu Xin, Yan Laijin, Fu Ying		• •	
	,,,,	<del>;</del>		

510	Ma Yan Wang Yixuan, Wang Zimu, F	Tongji University	Α	Acc. Competitor
512	Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Acc. Competitor
312	•	zwana, H.M Rezvey Haque Shaikat	A	Acc. Competitor
E 2 1	Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Acc. Competitor
321	•	dman Sabab, Md. Shahriar Sajid	A	Acc. Competitor
E24 2	•	Rajshahi University of Engineering & Technology	۸	Ass Compositor
524-2	Oishi Jyoti	, , , , , , , , , , , , , , , , , , , ,	Α	Acc. Competitor
F27	Promit Biswas, Safal Kumar		^	Ass Commetites
527	Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Acc. Competitor
F20	Humaira Tasnim, Sharika Ta		٨	Ass Camanatitan
528		Mawlana Bhashani Science and Technology University	Α	Acc. Competitor
F20		ar Hasan Shakib, Syed Habibul Basher	^	Ass Commetites
530	Oishi Jyoti	Rajshahi University of Engineering & Technology	Α	Acc. Competitor
F26	Tanha Farzana, Radwan Kho			A C
536	•	University of Chittagong	Α	Acc. Competitor
F20		barak Hossen, Md. Shafin Ahmed	^	A C + : +
539		University of Delhi	Α	Acc. Competitor
<b>5</b> 44	Lakshya Nagpal, Aditya Kum			A C
541		University Of Delhi	Α	Acc. Competitor
	Yug Sharma, Arman Yusuf, I			
543		Universidad Católica del Norte	Α	Acc. Competitor
		Gastiaburu, Angelo Delmonaco		
549	Quazi Muhammad Rashed I		Α	Acc. Competitor
	Md. Abdul Kader, Foisal Ahr	•		
560		Xi'an Jiaotong-Liverpool University	Α	Acc. Competitor
	Yiheng Chen, Yifan Jin, Rui L			
563	Shyamal Ranjan Chakrabort		Α	Acc. Competitor
	Rayhan Uddin, Md. Hasan N	•		
564		Civil Aviation University of China	Α	Acc. Competitor
	Kang Li, Dizhi Guo, Zhiyuan			
565	Kai Chen	Nanjing University of Science and Technology	Α	Acc. Competitor
	Yuting Hu, Jingyi Su			
567	Shyamal Ranjan Chakrabort	,	Α	Acc. Competitor
	•	da Hoque Akhee, Ohedul Ahad Himel		
569	Hao Yu	Xi'an Jiaotong-Liverpool University	Α	Acc. Competitor
	Anyu Shen, Kechun Zheng, Z	, , , ,		
572	•	University of Chittagong	Α	Acc. Competitor
	Israt Sultana Eithu, Md. Ma			
573	Li Yanqiang	Qingdao University	Α	Acc. Competitor
	Zhu Yanxiang, Liu Hongyan,	Han Xu		
574	Li Yanqiang	Qingdao University	Α	Acc. Competitor
	Quan Le Ran, Du Wen Kai, X	(u Xiao Yu		
577	A. K. M. Rezaur Rahman	University of Chittagong	Α	Acc. Competitor
	Saimul Hasan, Shayan Paul,	Md Iqbal Hossain		
578	Reinard Primulando	Parahyangan Catholic University	Α	Acc. Competitor
	Vincentius Evan Wijaya Tjia			

581	. Ma Yan	Tongji University	Α	Acc. Competitor
	Zhexian Gao, Shinong Fu			·
584	Tiago Adorno	Xi'an Jiaotong-Liverpool	Α	Acc. Competitor
	Chuangyi Li, Yanzhe Lin			·
590	Wang Xi	National University of Defense Technology	Α	Acc. Competitor
	Guchen Yuan, Cao Zewen, I			·
592	Anock Somadder	Shahjalal University of Science & Technology	Α	Acc. Competitor
	Md. Shakil, Jubayer Ahmed			·
594	Ma Yan	Tongji University	Α	Acc. Competitor
	Liu Xinke	-		·
597	Abdul Hannan	Shahjalal University Of Science And Technology	Α	Acc. Competitor
	Md Parvez Hossain, Sabbir	Ahmed Utsho, Khaleda Akter		·
604	Jasper Halekas	University of Iowa	Α	Acc. Competitor
	Owen Fiedorowicz, Ashley	Lindquist, Arissa Khan		•
605	Jasper Halekas	University of Iowa	Α	Acc. Competitor
	Augustin Heitman, Luke Th	ompson		·
609	Md. Kamal Hossain	Jahangirnagar University	Α	Acc. Competitor
	Sujana Islam Oishi, Naorin J	Jahan Tamanna, Ramis Maisa		·
610	Md. Kamal Hossain	Jahangirnagar University	Α	Acc. Competitor
	Gulshan Ara Pushpo, Jakari	a Hoshin Rone, Farhan Ishraq Tushar		•
611	Md. Kamal Hossain	Jahangirnagar University	Α	Acc. Competitor
	Abid Hasan Khan Koushik, S	Sedratul Muntaha, Abid Hasan		•
612	Md. Kamal Hossain	Jahangirnagar University	Α	Acc. Competitor
	Munna, Habiba Sultana Bar	nna, M A Shaif		
613	Shen Xiaobo	Nanjing University of Science and Technology	Α	Acc. Competitor
	Huang Chihan			
614	David Olsgaard	Simpson College	Α	Acc. Competitor
	Kayla Jensen, Kate Huisinga	a, Sterling Pariza		
621	Anock Somadder	Shahjalal University of Science and Technology	Α	Acc. Competitor
	Md. Hasibul Kabir, Habibur	Rahman		
623	Bachar Mourched	American University of the Middle East	Α	Acc. Competitor
	Hassan Mahdi Behbahani P	our, Abdulrahman Adel Jassim Borashed,		
625	Jaseer Ahmed	Shahjalal University of Science & Technology	Α	Acc. Competitor
	Ahamad Hasan Sakib, Farih	a Yasmin, Tanmoy Hasan Shapath		
628	Haiping Wu	Nanjing University of Science	Α	Acc. Competitor
	Xinran Yu, Runying Zhang, J	liani Yin		
629	Md. Kamruzzaman	University of Dhaka	Α	Acc. Competitor
	Ryhana Tasnim, Farhan No	or, Tasin Maliha		
637	Zhang Jiajie	National University of Defense Technology	Α	Acc. Competitor
	Li Hongwei, Bie Jiannan, Sh	i Lei		
639	Jaseer Ahmed	Shahjalal University of Science and Technology	Α	Acc. Competitor
	Shanto Babu Das, Mohamn	nad Iqbal Hossain, Hridita Das		
641	Zhang Yujin	Qilu University of Technology	Α	Acc. Competitor
	Wang Wenjie, Wang Longp			
651	Birosz Márton Tamás	ELTE - Eötvös Loránd University	Α	Acc. Competitor
	Aysu Ismayilova			

657 Paweł F. Góra Jagiellonian University A Acc. Competitor Aleksandra Gmurowska, Jakub Kozłowski, Hubert Herman
 662 Yang Zhang China University of Mining and Technology A Acc. Competitor Zichen Zhang, Siwei Li, Shengshuang Ren

102		Beijing Normal University	В	Gold Medal
	Wang Xuanyu, Dong Kunkai,			
138	•	Shanghai Jiao Tong University Joint Institute	В	Gold Medal
474	Yanze Yu, Xinzhe Juan, Ming		_	6 1 1 1 4 1 1
4/1		University of Warsaw	В	Gold Medal
	Jerzy Gamdzyk, Jan Kossacki			
116		Shanghai Jiao Tong University Joint Institute	В	Silver Medal
	Zhou Yusheng, Zhou Jin, Yua			
133		Shanghai Jiao Tong University Joint Institute	В	Silver Medal
	Zhe Li, Haoxuan Zeng, Shuoy			
241	Qu Zijie	Shanghai Jiao Tong University	В	Silver Medal
	Yang Xi, Luan Haoyang, You	Yuchen		
248	Qu Zijie	Shanghai Jiao Tong University	В	Silver Medal
	Meng Zi, Li Xiang, He Qilin			
257	Qu Zijie	Shanghai Jiao Tong University	В	Silver Medal
	Zhu Chiheng, Gao Shenghan	, Huang Zhongqi		
296	Leng Jiancai	Qilu University of Technology	В	Silver Medal
	Zhang Huaqin, Zhu Xuegen,	Wang Junhao		
304	Qu Zijie	Shanghai Jiao Tong University Joint Institute	В	Silver Medal
	Xia Yiwei, Xu Jiaqiu, Yu Zhe			
324	Hu Wei	Qilu University of Technology	В	Silver Medal
	Wang Ziqin, Di Xianfei, Li Ya	oyu		
337	Md Enamul Hoque	Shahjalal University of Science and Technology Sylhet	В	Silver Medal
	Md Sumon Ahmed, Fahim A	hmed, Gogon Chanda		
341	Jie Zhao	Qingdao City University	В	Silver Medal
	Changwei Gu, Xin Liu, Ying G	<del>o</del> u		
346	Alfredo Aranda	Universidad de Colima	В	Silver Medal
	Daniel Alejandro Aranda Zar	mora, María José Nande Preciado, Víctor Hugo Figueroa Llamas		
348	Luis Garza Gaona	Universidad de Colima	В	Silver Medal
	Emilio Estrada Heredia, Chri	stopher Puga Cerda, Ian Rincón Radillo		
354	Ma Yan	Tongji University	В	Silver Medal
	Yuan YuChen, Zheng XiaoBe	İ		
367	Fang Kai	Tongji University	В	Silver Medal
	Zhang Chengyue, Huang Xici	i, Wei Qiu		
376	Zhang Jianwei	Tongji University	В	Silver Medal
	Bai Kunzhuo			
380	Zhang Jianwei	Tongji University	В	Silver Medal
	Xu Ruokun, Pan Xinyu, Cui L	inghe		
382	Zhang Jianwei	Tongji University	В	Silver Medal
	Deng Xianchen			
386	Zhang Jianwei	Tongji University	В	Silver Medal
	He Yujiang			
434	Qin Jingu	National University of Defense Technology	В	Silver Medal
	Lv Chengjun, Xu Qizhen, Xue	e Pengxiang		

4	43 Qin Jingu	National University of Defense Technology	В	Silver Medal
	Li Shuo, Huang Dingtian, Li	u Yang		
4	44 Zhang Sen	National University of Defense Technology	В	Silver Medal
	Xie Yuyang, Li Yi, Du Yihang			
4	46 Yu Tongpu	National University of Defense Technology	В	Silver Medal
	Li Jiaqi, Yu Boao, Yang Ye			
4	61 Liu Yonglu	National University of Defense Technology	В	Silver Medal
	Gu Zhaoyang, Wang Yunso	ng, Hu Chengcheng		
5	18 Ma Yan	Tongji University	В	Silver Medal
	Sun Ruizhang, Cao Zheng,			
5	23 Ma Yan	Tongji University	В	Silver Medal
	Wang Baoning			
6	53 Michał Zdziennicki	University of Warsaw	В	Silver Medal
	Krystyna Syty, Krzysztof Ra	k, Victoria Vasileuskaya		
1	22 Liyan Liu	Civil Aviation University of China	В	Bronze Medal
	Yunge Zhang, Kun Li, Xuan	ru Qian		
1	27 Shao-Meng Qin	Civil Aviation University of China	В	Bronze Medal
	Ke-Yu Ai, Jia-Xin Dong, Hai-	Yao Du		
1	91 Haiping Wu	Nanjing University of Science and Technology	В	Bronze Medal
	Zhixiang Zhang, Xiaowan Z	hu, Yawen Qiao		
1	93 Haiping Wu	Nanjing University of Science and Technology	В	Bronze Medal
	Chengtai Wang, Yuqi Zhan,	Hongming Tao		
1	97 Haiping Wu	Nanjing University of Science and Technology	В	Bronze Medal
	Litao Yan, Chuyi Zheng, Shi	jia Lu		
2	04 Haiping Wu	Nanjing University of Science and Technology	В	Bronze Medal
	Zhu Xinzhe, Zhang Fengkai	, Fang Shiyuan		
2	07 Haiping Wu	Nanjing University of Science and Technology	В	Bronze Medal
	Senxin Zhu, Hao Gao, Yuan	xu Jiang		
2	21 Zijie Qu	Shanghai Jiao Tong University Joint Institute	В	Bronze Medal
	Hanning Zhang, Hubin Yan	Keyi Xu		
2	23 Haiping Wu	Nanjing University of Science and Technology	В	Bronze Medal
	Ruoyu Li, Hongyun Zhan, Ji	anhao Ye		
2	28 Haiping Wu	Nanjing University of Science and Technology	В	Bronze Medal
	Wang Junhao, Wang Zetao	, Tang Zhihe		
2	33 Xiaofen Li	Shanghai Jiao Tong University Joint Institute	В	Bronze Medal
	Zheng Qianhui, Yutong Wu	, Ruikai Yang		
2	40 Qin Shaomeng	Civil Aviation University of China	В	Bronze Medal
	Wu Zexuan, Wen Jiawen, Y			
2	42 Qu Zijie	Shanghai Jiao Tong University	В	Bronze Medal
	Zhang Chenyang, Yan Guar			
2	55 Meijie Liu	Qingdao University	В	Bronze Medal
	Yexu Wu, Ruichuan Fan, Jia	_		
2	67 Zijie Qu	Shanghai Jiao Tong University	В	Bronze Medal
	Yifan Chou, Hongliang Lu,			_
2	80 Gao Xingguo	Qilu University of Technology	В	Bronze Medal
	Lv Yi, Xiao Yunfei, Liu Jinku	n		

306	Zijie Qu	Shanghai Jiao Tong University Joint Institute	В	Bronze Medal
	Haoran Zhang, Yimin Wang	, Rui Jiang		
323	Chen Jiankang	Beijing Normal University	В	Bronze Medal
	Li Haolin, Zhang Pengyu, Li	Jin		
347	Malena Tejeda Yeomans	Universidad de Colima	В	Bronze Medal
	Angel Ploneda Preciado, Da	imian Alejandro de la Cruz Barreda, Christian Eduardo Mendoza l	Martíi	nez
368	Fang Kai	Tongji University	В	Bronze Medal
	Li Xinghan, Zhang Zhihao			
370	Fang Kai	Tongji University	В	Bronze Medal
	Xu Zihan, Ji Zhe, Zhao Lianz	heng		
387	Zhang Jianwei	Tongji University	В	Bronze Medal
	Li Haochen, Zhang Cheng, V			
406	•	Department of Atomic and Molecular Physics MAHE	В	Bronze Medal
	Bhagavatham Sriramana, D	evangi Singh, Abhiram Bhat		
425	Ma Yan	Tongji University	В	Bronze Medal
	Fan Qingcheng, Lei Shuangt			
426	Kater Murch	Washington University in St. Louis	В	Bronze Medal
	Corbin Tinnon, Daniel Ahma			
437	Peng Gang	National University of Defense Technology	В	Bronze Medal
	Feng Lei, Zhang Haile, Zhu N		_	
458	Zou Debin	National University of Defense Technology	В	Bronze Medal
	Yu Qinhua, Wu Jiaxiong, Liu		_	
468		University of Warsaw	В	Bronze Medal
470	Olgierd Żurek, Adam Warov		_	5
4/3	Michał Zdziennicki	University of Warsaw	В	Bronze Medal
400	•	ski, Piotr Borodako, Bartłomiej Lech	n	Duana Madal
499	Qu Zijie	Shanghai Jiao Tong University Joint Institute	В	Bronze Medal
<b>C17</b>	Li Siyuan, Cao Shujun, Zhan		D	Bronze Medal
21/	Ma Yan Xu Yijie	Tongji University	В	Bronze ivieuai
522	Markus Deserno	Carnegie Mellon University	В	Bronze Medal
J32	Colin Hanes, Claire Gist, Rad		Ь	bronze iviedar
556	Zhang Lei	China University of Mining and Technology	В	Bronze Medal
330	•	Nawal Mohammed Al-Muntaser		DIOTIZE IVICUAL
562		University of Chittagong	В	Bronze Medal
JU <u>-</u>	Amit Chakraborty, Showray	, , , , , , , , , , , , , , , , , , , ,	_	Bronze medal
582	ZiJie Qu	Shanghai Jiaotong University	В	Bronze Medal
	Haohan Yu, Shanyun Yang,			
600	Edwin Greco	Georgia Institute of Technology	В	Bronze Medal
	Rasmit Devkota, Zhihan We			
606	Li Yanqiang	Qingdao University	В	Bronze Medal
	Geng Shasha, Su Yating, Zhe	eng Haotian		
624	Sabahudin Vrtagic	American University of the Middle East	В	Bronze Medal
	Fares E A Ali, Razan N F Alo	baid,		
634	Huming Bo	National University of Defense Technology	В	Bronze Medal
	Shijun Wang, Du Jiabao, So	ng Guoxi		

113 Zijie Qu	Shanghai Jiao Tong University Joint Institute	В	Acc. Competitor
Chen Zeyi, He Zhuocheng	g, Li Yangyu		
120 John Sanders	The Citadel, The Military College of South Carolina	В	Acc. Competitor
Elizabeth Lockridge, Mar	io Sias, Matthew Unden		
151 Haiping Wu	Nanjing University of Science and Technology	В	Acc. Competitor
Zijun Ding, Jiawei Kang, L	ei Yao		
181 Haiping Wu	Nanjing University of Science and Technology	В	Acc. Competitor
Yujia Zhai, Lingyu Shi, Ch	en Zhu		
183 Guangan Wang	Nanjing University of Science and Technology	В	Acc. Competitor
He Yaorui, Hong Jiahao, A	An Haoran		
186 Haiping Wu	Nanjing University of Science and Technology	В	

	Fang Kai	Tongji University	В	Acc. Competitor
	Yang Zhuohan			
374	Zhang Jianwei	Tongji University	В	Acc. Competitor
	Chen PengJi, Ma ZhaoXin, Z	_		
390	Zhang Jianwei	Tongji University	В	Acc. Competitor
	Xia WeiBin, Wu HaiPing			
391	Zhang Yingli	Tongji University	В	Acc. Competitor
	Huang Rui, Fu MuXin, Feng	Wenzhe		
397	Zhang Yingli	Tongji University	В	Acc. Competitor
	Pan Jiuda, Fu Boyang, Chen	Zhiwei		
399	Zhang Yingli	Tongji University	В	Acc. Competitor
	Wei Dong			
400	Ma Yan	Tongji University	В	Acc. Competitor
	Liu Zhengjie, Wu Jielun, Liu	Yuda		
401	Jianwei Dai	Qingdao City University	В	Acc. Competitor
	Jingfei Wang, Qiuying Li, Gu	ıohui Zhao		
404	Oishi Jyoti	Rajshahi University of Engineering and Technology	В	Acc. Competitor
	Shafayata Sultana, Maysha	Yesmin, Tahmina Akter		
412	Oishi Jyoti	Rajshahi University of Engineering and Technology	В	Acc. Competitor
	Zannatul Mawa Leion, Nou	rin Tasnim		
417	Oishi Jyoti	Rajshahi University of Engineering and Technology	В	Acc. Competitor
	Durjoy Saha, Md.Afjol Hoss	ain Joy Bhuiyan, Shuvonkor Shuvo Dey Pijon		
431	Hari Chapagain	La Salle University	В	Acc. Competitor
	Ilia Volkov			
452	Yi Wenjun	National University of Defense Technology	В	Acc. Competitor
	Zheng Bin, Wang Huimin, Z			
457	Zhang Sen	National University of Defense Technology	В	Acc. Competitor
	Yan Zhikang, Cai Chenran, V			
465	Zhang Sen	National University of Defense Technology	В	Acc. Competitor
	Dou Haopu, Wei Chenyu, W	/u Yutong		
	Michał Zdziennicki	,	В	Acc. Competitor
	Jakub Szymankiew, J. Moze			
474	Michał Zdziennicki	University of Warsaw	В	Acc. Competitor
	Piotr Łukawski, Jakub Kośm			
480	Oishi Jyoti	Rajshahi University of Engineering and Technology	В	Acc. Competitor
		anjim Jahan, Md. Towhidul Alam		
483	Sun Kunyu	Qingdao City University	В	Acc. Competitor
	Huang Zheng, Lu Boyan, We			
489	Md. Azmain Yakin Srizon	, , ,	В	Acc. Competitor
		Faria Islam Zerin, Mayeesha Farjana		
497	Ma Yan	Tongji University	В	Acc. Competitor
	Sun Qiyue, Liu Ruihe, Ma Ju			
500	Oishi Jyoti	Rajshahi University of Engineering and Technology	В	Acc. Competitor
		naiya Khatun, Mst. Mazeda Noor Tasnim	_	
501	Md. Nuruzzaman	Rajshahi University of Engineering & Technology	В	Acc. Competitor
	Anik Kumar, Udita Roy, Sab	bir Hossain		

504 Oishi Jyoti	Rajshahi University of Engineering & Technology	В	Acc. Competitor
Md. Sajidur Rahman, Nasi	r Hasan Ashik, Md. Ashikur Rahman		
508 Oishi Jyoti	Rajshahi University of Engineering and Technology	В	Acc. Competitor
Zareen Tasnim Pear, Moh	ammad Lutfar Rahman Rifat, Raisa Tarannum		
514 Chunhong Long	Chongqing University of Posts and Telecommunications	В	Acc. Competitor
Zhao Liu, Kun Zhang, Cher	ıyi Hu		
515 Oishi Jyoti	Rajshahi University of Engineering and Technology	В	Acc. Competitor
Ahsanul Haque Milon, Md	Mahin Rahaman Kontho,		
533 Xiaofen Li	Shanghai Jiao Tong University	В	Acc. Competitor
Yugang Wang, Weixian Liu	ı, Renhao Zhang		
534 Mst Khurshida Begum	Shahjalal University of Science and Technology	В	Acc. Competitor
Rifat Rahman Bhuiyan, Na	dia Jannat Tanzum		
535 Shyamal Ranjan Chakrabo	rt University of Chittagong	В	Acc. Competitor
Mohammad Rashal, Mehe	runnesa Mehero, Sushmita Alam Reya		
538 Md. Nuruzzaman	Rajshahi University of Engineering and Technology	В	Acc. Competitor

642 Jesús Manuel Sáe	nz Universidad Autónoma de Ciudad Juárez	В	Acc. Competitor
Roy Noé Herrera	Navarro, Omar Alejandro Soto Navarro,		·
643 Cancan Rong	China University of Mining and Technology	В	Acc. Competitor
Yihan Liu, Haiyang	g Meng, Chengyi Yu		
644 Shahadat Hossain	Shahjalal University of Science and Technology	В	Acc. Competitor
Alif Azam, Pritom	Nandi, Mahbuba Sultana Mukta		
645 Yasuo Ito	Northern Illinois University	В	Acc. Competitor
John Ebersole			
648 Nazia Chawdhury	Shahjalal University of Science & Technology	В	Acc. Competitor
Ananya Auditi Ch	owdhury		
654 Jaseer Ahmed	Shahjalal University of Science and Technology	В	Acc. Competitor
Anika Tahsin, Md	Fakrul Alam, Md Robiul Islam		
659 Paweł F. Góra	Jagiellonian University	В	Acc. Competitor
Franciszek Ungerl	nauer, Michał Mielnicki, Maciej Ziobro		