



35th AAS/AIAA Space Flight Mechanics Meeting Program at a Glance

Sunday — January 19, 2025			
03:00 PM — 06:00 PM	Kaua'i Court	Registration	
05:30 PM — 07:00 PM	Puna Court	Welcome Reception sponsored by Intuitive Machines	

Monday — January 20, 2025			
07:30 AM — 05:00 PM	Kaua'i Court	Registration	<i>AAS Paper Number</i>
08:00 AM — 09:00 AM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization I	119, 158, 160, 457
	Halele'a (Salon 2)	Cislunar Astrodynamics I	123, 153, 183, 188
	Ko'olau (Salon 3)	Spacecraft Guidance, Navigation, and Control (GNC) I	113, 126, 248, 281
	Puna Ballroom	Rendezvous, Relative Motion, Proximity Missions, and Formation Flying I	193, 280, 434, 438
09:00 AM — 09:15 AM		Break	
09:15 AM — 10:15 AM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization II	141, 320, 327, 373
	Halele'a (Salon 2)	Cislunar Astrodynamics II	283, 288, 312, 357
	Ko'olau (Salon 3)	Spacecraft Guidance, Navigation, and Control (GNC) II	235, 256, 273, 468
	Puna Ballroom	Rendezvous, Relative Motion, Proximity Missions, and Formation Flying II	207, 318, 440, 491
10:15 AM — 10:30 AM	Kaua'i Court	Break with Light Refreshments	
10:30 AM — 11:30 AM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization III	205, 230, 284, 306
	Halele'a (Salon 2)	Cislunar Astrodynamics III	124, 161, 197, 238
	Ko'olau (Salon 3)	Spacecraft Guidance, Navigation, and Control (GNC) III	187, 297, 383, 393
	Puna Ballroom	Rendezvous, Relative Motion, Proximity Missions, and Formation Flying III	104, 252, 298, 369
11:30 AM — 02:00 PM		Lunch on Your Own	
02:00 PM — 03:00 PM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization IV	101, 165, 326, 345
	Halele'a (Salon 2)	Cislunar Astrodynamics IV	240, 267, 274, 454
	Ko'olau (Salon 3)	Spacecraft Guidance, Navigation, and Control (GNC) IV	102, 362, 375, 492
	Puna Ballroom	Launch Vehicle design, Dynamics, Guidance, and Control	133, 154, 398
03:00 PM — 05:00 PM	Ni'ihau Court	Poster Event sponsored by KBR Light Refreshments available in Kaua'i Court from 03:00 PM — 04:00 PM	135, 192, 224, 234, 236, 286, 380, 381, 387, 443, 472, 489
05:00 PM — 06:30 PM	Kaua'i Ballroom	MLK Event sponsored by Embry-Riddle Aeronautical University	



35th AAS/AIAA Space Flight Mechanics Meeting Program at a Glance

Tuesday — January 21, 2025			
Time	Location	Topic	AAS Paper Number
08:00 AM — 05:00 PM	Kaua'i Court	Registration	
08:00 AM — 09:00 AM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization V	131, 136, 191, 218
	Halele'a (Salon 2)	Multibody Dynamics and Trajectory Design I	115, 269, 430, 480
	Ko'olau (Salon 3)	Satellite Constellations and Formations	254, 272, 365, 460
	Puna Ballroom	Rendezvous, Relative Motion, Proximity Missions, and Formation Flying IV	250, 265, 349, 459
09:00 AM — 09:15 AM		Break	
09:15 AM — 10:15 AM	Kona (Salon 1)	Spacecraft Autonomy and Space Robotics I	164, 186, 275, 360
	Halele'a (Salon 2)	Orbital Debris and Space Environment I	279, 344, 415, 481
	Ko'olau (Salon 3)	Atmospheric Re-entry Guidance and Control I	105, 270, 391, 217
	Puna Ballroom	Rendezvous, Relative Motion, Proximity Missions, and Formation Flying V	142, 184, 216, 295
10:15 AM — 10:30 AM	Puna Court	Break with Light Refreshments	
10:30 AM — 11:45 AM	Kona (Salon 1)	Attitude Dynamics, Determination and Control I	171, 215, 374
	Halele'a (Salon 2)	Special Session on Sun Earth Libration Orbiters; RST and SWFO	384, 386, 390, 392, 403
	Ko'olau (Salon 3)	Atmospheric Re-entry Guidance and Control II	196, 317
		CubeSat and SmallSat Missions	206, 211
Puna Ballroom	Rendezvous, Relative Motion, Proximity Missions, and Formation Flying VI	368, 404, 471, 474	
11:45 AM — 02:00 PM		Lunch on Your Own	
02:00 PM — 03:00 PM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization VI	220, 411, 416, 451
	Halele'a (Salon 2)	Cislunar Astrodynamics V	157, 162, 243, 342
	Ko'olau (Salon 3)	Orbit Determination and Estimation I	300, 412, 428, 482
	Puna Ballroom	Orbital Dynamics, Perturbations, and Stability I	152, 179, 237, 241
03:00 PM — 03:15 PM	Puna Court	Break with Light Refreshments	
03:15 PM — 04:15 PM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization VII	221, 244, 310, 385
	Halele'a (Salon 2)	Cislunar Astrodynamics VI	322, 328, 371, 401
	Ko'olau (Salon 3)	Orbit Determination and Estimation II	107, 156, 166, 367
	Puna Ballroom	Three-Minute Thesis sponsored by Katalyst Space Technologies	
04:15 PM — 04:30 PM		Break	
04:30 PM — 05:30 PM	Puna Ballroom	Three-Minute Thesis sponsored by Katalyst Space Technologies	
06:00 PM — 09:00 PM	Kaua'i Ballroom	Banquet Dinner	
		Hawaiian Entertainment sponsored by Ansys	



35th AAS/AIAA Space Flight Mechanics Meeting Program at a Glance

Wednesday — January 22, 2025			
Time	Location	Topic	AAS Paper Number
08:00 AM — 05:00 PM	Kaua'i Court	Registration	
08:00 AM — 09:00 AM	Kona (Salon 1)	Cislunar Astrodynamics VII	198, 432, 445, 456
	Halele'a (Salon 2)	Earth Orbital and Planetary Mission Studies I	120, 370, 376, 382
	Ko'olau (Salon 3)	Orbit Determination and Estimation III	303, 406, 422, 475
	Puna Ballroom	Special Session on Optimal Control and Reinforcement Learning I	159, 247, 302, 331
09:00 AM — 09:15 AM		Break	
09:15 AM — 10:15 AM	Kona (Salon 1)	Asteroid and Interplanetary Mission and Trajectory Design I	106, 172, 307, 308
	Halele'a (Salon 2)	Dynamical Systems Theory Applied to Space Flight Problems IV	185, 232
		Multibody Dynamics and Trajectory Design II	138, 335
	Ko'olau (Salon 3)	Orbital Debris and Space Environment II	151, 309, 321, 421
Puna Ballroom	Special Session on Optimal Control and Reinforcement Learning II	291, 332, 343, 470	
10:15 AM — 10:30 AM	Kaua'i Court	Break with Light Refreshments	
10:30 AM — 11:30 AM	Kona (Salon 1)	Asteroid and Interplanetary Mission and Trajectory Design II	305, 329, 413, 442
	Halele'a (Salon 2)	Low-Thrust Trajectories I	116, 225, 239, 290
	Ko'olau (Salon 3)	Orbital Debris and Space Environment III	175, 350, 364, 448
	Puna Ballroom	Special Session on Optimal Control and Reinforcement Learning III	182, 257, 262, 356
11:30 AM — 02:00 PM		Lunch on Your Own	
02:00 PM — 03:00 PM	Kona (Salon 1)	Space Situational Awareness, Conjunction Analysis, and Collision Avoidance I	122, 148, 255, 296
	Halele'a (Salon 2)	Low-Thrust Trajectories II	137, 177, 268, 478
	Ko'olau (Salon 3)	Dynamical Systems Theory Applied to Space Flight Problems I	111, 144, 163, 170
	Puna Ballroom	Special Session on Optimal Control and Reinforcement Learning IV	420, 431, 446, 458
03:00 PM — 03:15 PM	Kaua'i Court	Break with Light Refreshments	
03:15 PM — 04:15 PM	Kona (Salon 1)	Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II	200, 325, 418, 479
	Halele'a (Salon 2)	Spacecraft Autonomy and Space Robotics II	103, 294, 346, 419
	Ko'olau (Salon 3)	Dynamical Systems Theory Applied to Space Flight Problems II	353, 424, 425
	Puna Ballroom	Special Session on Optimal Control and Reinforcement Learning V	Panel Discussion
04:15 PM — 04:30 PM		Break	
04:30 PM — 05:30 PM	Kona (Salon 1)	Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III	314, 358, 378, 455
	Halele'a (Salon 2)	In-Space Assembly, Manufacturing and Servicing/Orbital Debris and Space Environment I	190, 210, 222, 426
	Ko'olau (Salon 3)	Dynamical Systems Theory Applied to Space Flight Problems III	150, 195, 260, 473
	Puna Ballroom	Special Session on Optimal Control and Reinforcement Learning VI	Panel Discussion
05:30 PM — 07:00 PM	Puna Ballroom	Ansys Cislunar Orbit Designer Workshop	



35th AAS/AIAA Space Flight Mechanics Meeting Program at a Glance

Thursday – January 23, 2025			
Time	Location	Topic	AAS Paper Number
08:00 AM – 05:00 PM	Kaua'i Court	Registration	
08:00 AM – 09:00 AM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization VIII	180, 282, 355, 389
	Halele'a (Salon 2)	Orbital Dynamics, Perturbations, and Stability II	112, 174
	Ko'olau (Salon 3)	Orbit Determination and Estimation IV	194, 223, 377, 394
	Puna Ballroom	Attitude - Sensor and Payload - Sensor Calibration	363, 436
History of Space and Future Concepts		129, 130	
09:00 AM – 09:15 AM		Break	
09:15 AM – 10:15 AM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization IX	264, 315, 319, 341
	Halele'a (Salon 2)	Orbital Dynamics, Perturbations, and Stability III	114, 242, 437, 439
	Ko'olau (Salon 3)	Orbit Determination and Estimation V	169, 204, 246, 249
	Puna Ballroom	Machine Learning and Artificial Intelligence Applied to Space Flight Problems I	132, 143, 147, 203
10:15 AM – 10:30 AM	Kaua'i Court	Break with Light Refreshments	
10:30 AM – 11:30 AM	Kona (Salon 1)	Attitude Dynamics, Determination and Control II	176, 227, 245, 251
	Halele'a (Salon 2)	Cislunar Astrodynamics VIII	261, 293, 301, 330
	Ko'olau (Salon 3)	Spacecraft Guidance, Navigation, and Control (GNC) V	117, 149, 167, 168
	Puna Ballroom	Machine Learning and Artificial Intelligence Applied to Space Flight Problems II	285, 444, 476, 486
11:30 AM – 02:00 PM		Lunch on Your Own	
02:00 PM – 03:00 PM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization X	259, 323, 333, 477
	Halele'a (Salon 2)	Cislunar Astrodynamics IX	202, 407, 414, 427
	Ko'olau (Salon 3)	Attitude Dynamics, Determination and Control III	213, 338, 397, 408
	Puna Ballroom	Machine Learning and Artificial Intelligence Applied to Space Flight Problems III	146, 359, 366
03:00 PM – 03:15 PM	Kaua'i Court	Break with Light Refreshments	
03:15 PM – 04:15 PM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization XI	134, 181, 209, 417
	Halele'a (Salon 2)	Machine Learning and Artificial Intelligence Applied to Space Flight Problems V	258, 292, 311, 372
	Ko'olau (Salon 3)	Spacecraft Guidance, Navigation, and Control (GNC) VI	340, 347, 441, 449
	Puna Ballroom	Rendezvous, Relative Motion, Proximity Missions, and Formation Flying VII	334, 379, 452, 465
04:15 PM – 04:30 PM		Break	
04:30 PM – 05:30 PM	Kona (Salon 1)	Trajectory/Mission/Maneuver Design and Optimization XII	278, 361, 423
	Halele'a (Salon 2)	Cislunar Astrodynamics X	233, 253, 271, 277
	Ko'olau (Salon 3)	Spacecraft Guidance, Navigation, and Control (GNC) VII	352, 354, 429, 487
	Puna Ballroom	Machine Learning and Artificial Intelligence Applied to Space Flight Problems IV	155, 212