

Session 1.4 Precision engineering and optics

Time: Wednesday, 06.09.2023

Location: Humboldtbaun, HU 129

Chairman: R. Theska (D-Ilmenau)

9:00 a.m.	M. Torres Melgarejo, S. Henning, L. Zentner, R. Theska (D-Ilmenau)
Synthesis of optimized compliant mechanisms for ultra-precision applications	
9:20 a.m.	V. Vainio, J. Majuri, M. Miettinen, P. Haverinen, O. Leutonen, R. Viitala (FL-Espoo)
Aerostatic deflection compensation for flexible large-scale rotor	
9:40 a.m.	D. Schaeffer, D. Klenkert, J. Stauch, M. Kufner, R. Foerg, J. Ebbecke (D-Deggendorf)
Fabrication of asymmetric multimode splitters in glass by planar ion exchange and laser ablation	
10:00 a.m.	M. Darnieder, M. Wittke, R. Theska, M. Pabst, T. Fröhlich (D-Ilmenau)
Monolithic compliant mechanism for an EMFC mass comparator weighing cell	
10:20 - 10:40 a.m. Coffee break and Visits of Expositions	
10:40 a.m.	T. Erbe (NL-Veldhoven)
Basic considerations for circumferential adhesive bonds in order to reduce lens deformations	
11:00 a.m.	L. Zettlitzer, H. Gross, S. Riese (D-Jena), R. Theska (D-Ilmenau)
Design of an all-reflective dual field-of-view optical system based on metal freeform mirrors	
11:20 a.m.	L. Keck, F. Seifert, D. Newell, D. Haddad (USA- Gaithersburg), R. Theska (D-Ilmenau)
Preliminary Characterization of Anelastic Effects in the Flexure Mechanism for a new Kibble Balance at NIST	
12:00 noon – 1:00 p.m. Lunch and Visits of Expositions	