

PUBBLICAZIONI SELEZIONATE

1. **M. Riva**, D. di Sanzo, A. Airolidi, G. Sala, F. M. Zerbi “*Smart structures for deformable mirrors actuated by piezocomposites.*” Proceedings of the SPIE, Volume 7739, Modern Technologies in Space- and Ground-based Telescopes and Instrumentation. pp. 77391N-77391N-16 (2010) **(P10)**
2. M.Riva, “*A new optomechanical structural optimization approach: coupling FEA and Raytracing sensitivity matrices*” Proceedings of the SPIE, Volume 8449, Modeling, Systems Engineering, and Project Management for Astronomy V, pp. 844919-1 844919-9 (2012) **(P36)**
3. M.Riva, D.Rigamonti, F.Zanetti, F.Passaretti, E.Villa, F.M.Zerbi “*Shape memory alloys for astronomical instrumentation: space and ground-based applications*” Proceedings of the SPIE, Volume 8450, Modern Technologies in Space- and Ground-based Telescopes and Instrumentation II, pp. 84500E-1 84500E-13 (2012) **(P28)**
4. Marco Riva, Jean Christophe Barrire, Didier Ferrand, Thierry Maciaszek, Eric Prieto, Luca Valenziano, Filippo Zerbi “*Euclid NISP GWA and compensating mechanism*” Proceedings of the SPIE, Volume 8442, Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave, pp. 844211-1 844211-13 (2012) **(P30)**
5. M. Riva, M.Aliverti, M.Moschetti, M.Landoni, S.Dell’Agostino, F.Pepe, D.Mégevand, F.M. Zerbi, S.Cristiani, A.Cabral “*ESPRESSO front end: modular opto-mechanical integration for astronomical instrumentation*” Proceedings of the SPIE, Volume 9147, Ground-based and Airborne Instrumentation for Astronomy V 2014. pp. 91477G **(P51)**

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- **L01 M. Riva**, “*Smart Structures in Instrumentation for Astronomy.*” Editor: LAP LAMBERT Academic Publishing. ISBN: 978-3844310382
- **L02 M. Riva**, “*Integrated FEA and raytracing in Instrumentation for Astronomy: Smart structures evaluation and Structural Optimization*” chapter of “*Finite Element Analysis / Book 2*” Editor: Dr. Farzad Ebrahimi. ISBN: 980-9533074967 Publisher: INTECH

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- **A07** F.Pepe, P.Molaro, S.Cristiani, R.Rebolo, N.C. Santos, H.Dekker, D.Mégevand, F.M. Zerbio, A.Cabral, P.Di Marcantonio, M.Abreu, M.Aliverti, C.Allende, M.Amate, G.Avila, V.Baldini, P.Bristow, C.Broeg, R.Cirami, J.Coelho, P.Conconi, I.Coretti, G.Cupani, V.D’Odorico, V.De Caprio, B.Delabre, R.Dorn, P.Figueira, A.Fragoso, S.Galeotta, L.Genolet, R.Gomes, J.Gonzalez Hernandez, I.Hughes, O.Iwert, F.Kerber, M.Landoni, J.L.Lizon, C.Lovis, C.Maire, M.Mannetta, C.Martins, M.Monteiro, A.Oliveira, E.Poretti, J.L.Rasilla, M.Riva, S.Santana Tschudi, P.Santos, D.Sosnowska, S.Sousa,P.Spanó, F.Tenegi, G.Toso, E.Vanzella, M.Viel, M.R.Zapatero Osorio “*ESPRESSO: The next European exoplanet hunter*” Astronomische Nachrichten, Volume 335 (2014)

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- **C03** P. Spanó, F. M. Zerbi, P. Santin, R. Pallavicini, V. De Caprio, M. Riva, M. Tintori, P. Di Marcantonio, A. Zacchei, E. Molinari, A. Riva, R. Cosentino, P. Bruno, H. Dekker, S. D’Odorico “*X-SHOOTER: a unique opportunity for the Italian community.*” Mem. S.A.It. Vol.80, p.44 (2009)
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- **T03** Coautore di: “*X-Shooter: Mechanical Design Report, UV-B and VIS Spectrographs*”, XSH-TRE-ITA-4000-0053, (E.S.O. Technical report for X-Shooter FDR review)
- **T04** Coautore di: “*X-Shooter: Mechanical Drawings, UV-B and VIS Spectrographs*”, XSH-DWG-ITA-UV-B & VIS arm(E.S.O. technical drawings for X-Shooter FDR review)
- **2006 - Altri**
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- **T06** Autore di: “*Te.Si. Telescopic Simulator, Design Structure and Control System*”, TEC-XSH-TES-01,(Internal technical report)
- **T07** Coautore di: “*X-SHOOTER FEA with FEA (Fast Extrapolation Algorithm)*”, TEC-XSH-FEA-01, (Internal technical report)
- **T08** Autore di: “*Ge.C.O. The Return*”, TEC-DOL-GE2-01, (Internal technical report)
- **2009**
- **T09** Autore di: “*E-ELT TEST CAMERA: Preliminary Mechanical Implementation of the E-ELT Test Camera.*” (ESO technical report (2009))
- **T10** Coautore di: “*EUCLID NIS: Instrument Design Description.*” (ESA Study Report, Assessment Phase (2009))
- **T11** Coautore di: “*E-ELT M4: Demonstration Prototype Calibration and Test Bench Design Report*” E-TRE-INA-106-0002 (E.S.O. Technical report for M4 review).
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- **T12** Autore di: “*E-ELT COUDE’: Coudé train Conceptual design Report.*” E-TRE-ESO-555-0677 (ESO technical report (2010))
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- **T17** Coautore di: “*ESPRESSO: Phase A: Concept Study and Preliminary Design*” VLT-TRE-ESP-13520-0013, (2010), (E.S.O. Technical report for ESPRESSO Phase A review).
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- **T18** Coautore di: “*E-ELT M4: M4AU Calibration and Test Bench Design Report*” E-TRE-INA-106-0003 (E.S.O. Technical report for M4 review).
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- **2010 - Euclid AO DataPack**

- **T20** Coautore di: “*EUCLID Euclid Instruments Requirements Specification.*” EUCL-PL-00014-SYS (ESA Study Report, AO Data Pack (2010))
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- **T125** Coautore di: “*Demonstration Prototype Optical Test Report*” E-DER-INA-106-0004, (E.S.O. Technical report for Phase A review)
- **2013 - Espresso FDR review**
- **T53** Autore di: “*ESPRESSO: Front-EndSSDesignandPerformanceReport*” VLT-TRE-ESP-13520-0040, (E.S.O. Technical report for ESPRESSO FDR review).
- **T54** Coautore di: “*ESPRESSO: Executive Summary*” VLT-TRE-ESP-13520-0037, (E.S.O. Technical report for ESPRESSO FDR review).
- **T55** Coautore di: “*ESPRESSO: Front End Earthquake Analysis*” VLT-TRE-ESP-13520-0121, (E.S.O. Technical report for ESPRESSO FDR review).
- **T56** Coautore di: “*ESPRESSO: System Budget Breakdown*” VLT-TRE-ESP-13520-0097, (E.S.O. Technical report for ESPRESSO FDR review).
- **T57** Coautore di: “*ESPRESSO: Compliance Matrix*” VLT-TRE-ESP-13520-0056 (E.S.O. Technical report for ESPRESSO FDR review).
- **T58** Coautore di: “*ESPRESSO: Paranal Observatory ICD*” VLT-ICD-ESO-13529-5412, (E.S.O. Technical report for ESPRESSO FDR review).

- **T59** Coautore di: “*ESPRESSO: Spectrograph Optical Design and Performance Report*” VLT-TRE-ESP-13520-0009, (E.S.O. Technical report for ESPRESSO FDR review).
- **T60** Coautore di: “*ESPRESSO: Anamorphic Pupil Slicer Unit Design and Performance Report*” VLT-TRE-ESP-13520-0144, (E.S.O. Technical report for ESPRESSO FDR review).
- **T61** Coautore di: “*ESPRESSO: Exposure Meter Design Report*” VLT-TRE-ESP-13520-0146, (E.S.O. Technical report for ESPRESSO FDR review).
- **T62** Coautore di: “*ESPRESSO: Instrument On-site Assembly Plan*” VLT-TRE-ESP-13520-0110, (E.S.O. Technical report for ESPRESSO FDR review).
- **T63** Coautore di: “*ESPRESSO: Front End breadboards test report*” VLT-TRE-ESP-13520-0137, (E.S.O. Technical report for ESPRESSO FDR review).

• **2013 - Euclid ISRR review**

- **T64** Autore di: “*Euclid FWA/GWA Cryo-Motors Requirements specification*” EUCL-OBR-NPS-RS-00083 (ESA Technical report for EUCLID ISRR review).
- **T65** Autore di: “*Euclid CMU requirements Specifications*” EUCL-OBR-NPS-RS-00176 (ESA Technical report for EUCLID ISRR review).
- **T66** Autore di: “*Euclid NISP GWA requirements Specifications*” EUCL-OBR-RS-7-001 (ESA Technical report for EUCLID ISRR review).
- **T67** Autore di: “*Euclid NISP GWA requirements Verification Matrix*” EUCL-OBR-OTH-7-001 (ESA Technical report for EUCLID ISRR review).
- **T68** Autore di: “*Euclid NISP GWA requirements Compliance Matrix*” EUCL-OBR-OTH-7-002 (ESA Technical report for EUCLID ISRR review).
- **T69** Coautore di: “*EUCLID: NISP System Engineering Plan*” EUCL-CNE-NPS-PL-00090, (ESA Technical report for EUCLID ISRR review).
- **T70** Coautore di: “*Euclid NISP FWA requirements Specifications*” EUCL-IFE-RS-7-001 (ESA Technical report for EUCLID ISRR review).
- **T71** Coautore di: “*Euclid NISP EGSE requirements Specifications*” EUCL-IBO-RS-7-001 (ESA Technical report for EUCLID ISRR review).
- **T72** Coautore di: “*Euclid NISP Instrument requirements Specifications*” EUCL-LAM-RS-7-006 (ESA Technical report for EUCLID ISRR review).
- **T73** Coautore di: “*Euclid NISP Calibration Unit requirements Specifications*” EUCL-LAM-RS-7-007 (ESA Technical report for EUCLID ISRR review).
- **T74** Coautore di: “*Euclid NISP Structure Assembly requirements Specifications*” EUCL-LAM-RS-7-008 (ESA Technical report for EUCLID ISRR review).
- **T75** Coautore di: “*Euclid NISP Detector System requirements Specifications*” EUCL-LAM-RS-7-009 (ESA Technical report for EUCLID ISRR review).
- **T76** Coautore di: “*Euclid NISP Calibration Unit requirements Specifications*” EUCL-LAM-RS-7-010 (ESA Technical report for EUCLID ISRR review).
- **T77** Coautore di: “*Euclid NISP Optical Assembly requirements Specifications*” EUCL-MPE-RS-7-002 (ESA Technical report for EUCLID ISRR review).
- **T78** Coautore di: “*Euclid NISP Harness requirements Document*” EUCL-OTO-RD-7-001 (ESA Technical report for EUCLID ISRR review).
- **T79** Coautore di: “*Euclid NISP Data Processing Unit requirements Specifications*” EUCL-OTO-RS-7-001 (ESA Technical report for EUCLID ISRR review).
- **T80** Coautore di: “*Euclid NISP Instrument Control Unit ASW requirements Specifications*” EUCL-OTO-RS-7-002 (ESA Technical report for EUCLID ISRR review).
- **T81** Coautore di: “*Euclid NISP Instrument Control Unit Hardware requirements Specifications*” EUCL-UPCT-RS-7-001 (ESA Technical report for EUCLID ISRR review).

- **T82** Coautore di: “*Euclid NISP Instrument Control Unit BSW requirements Specifications*” EUCL-UPCT-RS-7-002 (ESA Technical report for EUCLID ISRR review).
- **T83** Coautore di: “*Euclid NISP Instrument Description Document*” EUCL-LAM-OTH-7-001 (ESA Technical report for EUCLID ISRR review).
- **T84** Coautore di: “*Euclid NISP Instrument Requirements Justification Document*” EUCL-LAM-OTH-7-004 (ESA Technical report for EUCLID ISRR review).
- **T85** Coautore di: “*Euclid NISP AIV AIT Plan*” EUCL-LAM-PL-7-004 (ESA Technical report for EUCLID ISRR review).
- **E-ELT M4 PDR phase**
- **T126** Coautore di: “*M4U OPTICAL TEST SETUP TRADE OFF DOCUMENT*” E-DER-INA-106-5003, (E.S.O. Technical report for Preliminary Desing Phase).
- **T127** Coautore di: “*M4U OPTICAL TEST DESIGN*” E-DER-INA-106-5004, (E.S.O. Technical report for Preliminary Desing Phase).
- **T128** Coautore di: “*M4AU OPTICAL TEST SETUP REQUIREMENT DOCUMENT*” E-SPE-ADP-106-5001, (E.S.O. Technical report for Preliminary Desing Phase)
- **2014 - Espresso DFDR review**
- **T86** Coautore di: “*ESPRESSO: Technical Note on the achievability of 10 cms^{-1} precision*” VLT-TRE-ESP-13520-0196 , (E.S.O. Technical report for ESPRESSO DFDR review).
- **T87** Coautore di: “*ESPRESSO: Paranal Observatory ICD*” VLT-ICD-ESO-13529-5412 , (E.S.O. Technical report for ESPRESSO DFDR review).
- **2014 - NTE PDR review**
- **T88** Autore di: “*NTE: VIS-NIR Camera Preliminary Design*” NTE-TRE-ITA-04B-46-01, (Technical report for NTE PDR review).
- **T89** Coautore ovvero revisore interno di: “*NTE: Imaging Mechanics, Preliminary design*” NTE-TRE-DMK-07-028-04, (Technical report for NTE PDR review).
- **T90** Coautore ovvero revisore interno di: “*NTE: FEA (Finite Element Analysis) of Imaging Mechanics*” NTE-TRE-DMK-07-030-01, (Technical report for NTE PDR review).
- **T91** Coautore ovvero revisore interno di: “*NTE: Spectrograph Mechanics*” NTE-TRE-DMK-08-029-04, (Technical report for NTE PDR review).
- **2014 - Euclide IPDR review**
- **T92** Autore di: “*EUCLID: NI-GWA requirements specification document*” EUCL-OBR-RS-7-001, (ESA Technical report for EUCLID IPDR review).
- **T93** Autore di: “*EUCLID: NI-GWA verification matrix*” EUCL-OBR-OTH-7-001, (ESA Technical report for EUCLID IPDR review).
- **T94** Autore di: “*EUCLID: NI-GWA Development Plan*” EUCL-OBR-PL-7-001, (ESA Technical report for EUCLID IPDR review).
- **T95** Autore di: “*EUCLID: NI-GWA Assembly Integration Test and Verification Plan (AIV)*” EUCL-OBR-PL-7-002 , (ESA Technical report for EUCLID IPDR review).
- **T96** Autore di: “*EUCLID: NI-GWA Design Definition File (DDF) and Trade off and Design Justification File (DJF)* ” EUCL-OBR-RP-7-001, (ESA Technical report for EUCLID IPDR review).
- **T97** Autore di: “*EUCLID: Ancillary GWA documents lists* ” EUCL- OBR-LI-7-004, (ESA Technical report for EUCLID IPDR review).
- **T98** Autore di: “*EUCLID: NI-GWA Compliance Matrix*” EUCL-OBO-OTH-7-001, (ESA Technical report for EUCLID IPDR review).

- **T99** Autore di: “*EUCLID: NI-GWA Interface Control Document (ICD)*” EUCL-OBR-ICD-7-001, (ESA Technical report for EUCLID IPDR review).
- **T100** CoAutore di: “*EUCLID: NISP Technical Description*” EUCL-LAM-OTH-7-001, (ESA Technical report for EUCLID IPDR review).
- **T101** CoAutore di: “*EUCLID: NISP Demonstration Model development and AIV requirements*” EUCL-LAM-RD-7-002, (ESA Technical report for EUCLID IPDR review).
- **T102** CoAutore di: “*EUCLID: NISP Instrument Performances document and justification*” EUCL-LAM-RP-7-014, (ESA Technical report for EUCLID IPDR review).
- **T103** CoAutore di: “*EUCLID: NISP Requirement specification document*” EUCL-LAM-RS-7-006, (ESA Technical report for EUCLID IPDR review).
- **T104** CoAutore di: “*EUCLID: NI-CU Requirement specifications document*” EUCL-LAM-RS-7-007, (ESA Technical report for EUCLID IPDR review).
- **T105** CoAutore di: “*EUCLID: NI-SA requirement specification document*” EUCL-LAM-RS-7-008, (ESA Technical report for EUCLID IPDR review).
- **T106** CoAutore di: “*EUCLID: NI-DS requirements specifications document*” EUCL-LAM-RS-7-009, (ESA Technical report for EUCLID IPDR review).
- **T107** CoAutore di: “*EUCLID: NI-OA Requirements Specification document*” EUCL-MPE-RS-7-002, (ESA Technical report for EUCLID IPDR review).
- **T108** CoAutore di: “*EUCLID: NI-FWA requirements specification document*” EUCL-BCN-RS-7-001, (ESA Technical report for EUCLID IPDR review).
- **T109** CoAutore di: “*EUCLID: NI-GWA Declared Materials List*” EUCL-OBR-LI-7-001, (ESA Technical report for EUCLID IPDR review).
- **T110** CoAutore di: “*EUCLID: NI-GWA Declared Mechanical Parts List*” EUCL-OBR-LI-7-002, (ESA Technical report for EUCLID IPDR review).
- **T111** CoAutore di: “*EUCLID: NI-GWA Declared Process List*” EUCL-OBR-LI-7-003, (ESA Technical report for EUCLID IPDR review).
- **T112** CoAutore di: “*EUCLID: NISP Flight Harness Requirements Specification*” EUCL-OTO-RD-7-001, (ESA Technical report for EUCLID IPDR review).
- **T113** CoAutore di: “*EUCLID: NI-DPU requirement specification document*” EUCL-OTO-RS-7-001, (ESA Technical report for EUCLID IPDR review).
- **T114** CoAutore di: “*EUCLID: NI-ICU ASW requirements specification document*” EUCL-OTO-RS-7-002, (ESA Technical report for EUCLID IPDR review).
- **T115** CoAutore di: “*EUCLID: NI-ICU requirements specification document*” EUCL-UPCT-RS-7-001, (ESA Technical report for EUCLID IPDR review).

• **2014 - Euclide GWA-PDR review**

- **T116** Autore di: “*EUCLID: NI-GWA Design Definition File (DDF) and Trade off and Design Justification File (DJF)*” EUCL-CNE-NPS-PL-00088 , (ESA Technical report for EUCLID GWA-PDR review).
- **T117** Autore di: “*EUCLID: NI-GWA Assembly Integration Test and Verification Plan (AIV)* ” EUCL-?OBR-?PL-?7-?002, (ESA Technical report for EUCLID GWA-PDR review).
- **T118** Autore di: “*EUCLID: NI-GWA Mechanical and Thermal Analysis*” EUCL-OBR-RP-7-002, (ESA Technical report for EUCLID GWA-PDR review).
- **T119** Autore di: “*EUCLID: NI-GWA Assembly Integration Test and Verification Plan (AIV)*” EUCL-OBR-PT-7-001, (ESA Technical report for EUCLID GWA-PDR review).
- **T120** CoAutore di: “*EUCLID: NI-GWA Declared Materials List*” EUCL-OBR-LI-7-001, (ESA Technical report for EUCLID GWA-PDR review).

- **T121** CoAutore di: “*EUCLID: NI-GWA Declared Mechanical Parts List*” EUCL-OBR-LI-7-002, (ESA Technical report for EUCLID GWA-PDR review).
- **T122** CoAutore di: “*EUCLID: NI-GWA Declared Process List*” EUCL-OBR-LI-7-003, (ESA Technical report for EUCLID GWA-PDR review).
- **2015 - HIRES concept study**
- **T129** Autore di: “*HIRES: Blue Book*” HIRES-BB-0001 , (Technical summary of the Hires concept study).