

Friday 19 May 2023, at 15:00

Speaker is

Dr. Adriano Pepato

and the subject

AM for Accelerators

DIAM (Development and Innovation on Additive Manufacturing) is a workgroup of the INFN Padua division, focused on scientific and technological research in the field of Additive Manufacturing (AM) technologies. Three Laser Powder Bed Fusion (L-PBF) machines and equipment for post-production are available at DIAM, to allow the production and the analysis of additively manufactured materials such as copper, copper alloys, aluminium alloys, titanium alloys, Inconel 718, stainless steel, and refractory metals (Ta, Nb, W, Mo), which are particularly suitable for Nuclear Fusion and Particle Accelerator communities. DIAM participates in several international projects, implementing the AM in advanced fields such as nuclear fusion (e.g. DTT project) and particle accelerators (e.g. SPES project). The R&D programs include the development of AM powder alloys, the characterization of AM processes and produced materials, and finally, the implementation of Design for Additive Manufacturing (DfAM) technics in order to additively produce prototypes for components testing and validation. Several collaborations with public research organizations (such as PoliTo, PoliMi, University of Padua, CERN, ASI, ProM) and industries (EOS, TRUMPF, Pres-X, BAKER-HUGHES) make up the network on which DIAM chooses to implement the assigned INFN projects.

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