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PHYSICALLY BASED CONSTITUTIVE MODELS FOR CRASH OF COMPOSITES

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Date and Venue 5 November 2019, 09:30, Sala Ferrari, DIMEAS

The MUL^2 group, in cooperation with AIDAA Torino and the ICONIC project, is pleased to announce a seminar on material models for crash of composites. Dr. Sergio Costa is a Post-Doc at RISE, and he is cooperating with POLITO in the framework of an MSCA ITN-ETN.

Selected publications

Sergio Costa, Thomas Bru, Robin Olsson et al.
Improvement and validation of a physically-based model for the shear and transverse crushing of orthotropic composites
Journal of Composite Materials. Vol. 53 (12), p. 1681-1696, 2019

Sergio Costa, R. Gutkin, R. Olsson
Mesh objective implementation of a fiber kinking model for damage growth with friction
Composite Structures. Vol. 168, p. 384-391, 2017

Renaud Gutkin, Sergio Costa, Robin Olsson
A physically-based model for kink-band growth and longitudinal crushing of composites under 3D stress states accounting for friction
Composites Science and Technology. Vol. 135, p. 39-45, 2016