



Dipartimento di Strutture per l'Ingegneria e l'Architettura (DiSt)

Nell'ambito del **Corso di Dottorato in
Ingegneria Strutturale, Geotecnica e Rischio Sismico**

27 maggio 2021, ore 10:30-13:30

Dott. Ing. Maria Teresa De Risi

Seminario

The seismic performance of beam- column joints in existing RC buildings: from experimental tests to modelling and retrofitting issues

This seminar aims at providing an overview of the state of the art and of the new research outcomes and trends about experimental testing, modelling strategies and retrofitting techniques of unreinforced beam-column joints in existing RC buildings. Experimental outcomes will be first presented and analyzed to highlight the main vulnerabilities of unreinforced joints, focusing on the experimental results obtained at the lab of Department of Structures for Engineering and Architecture. A wide overview of the shear strength evaluation and joint modelling proposals will be carried out to show how beam-column joints seismic response can be numerically reproduced in nonlinear static or dynamic structural analyses and pro and cons of the main modelling strategies. Lastly, some strengthening techniques aiming at limiting joint damage will be discussed, along with their (experimentally tested) effectiveness, providing practice-oriented design tools and a critical analysis of their weakness points.

Aula Multimediale

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Iscrizioni all'indirizzo phd.dist@unina.it