

Final workshop July 1st, 2022 Spatial variability of ground motion and impact on structures

Location: EDF Lab Paris Saclay, amphi 1

Agenda

9h00 Accueil - 9h20 Intro (10 min)

- Filippo Gatti (CS) Hybrid broad-band (0-10 Hz) prediction of 3-D near field seismic response at regional scale: Green's functions, extended fault scenarios and uncertainty quantification. Application to the nuclear sites of Cadarache (France) and Kashiwazaki-Kariwa (Japon).
- Michail Korres (EDF) Coupled 3D physics-based simulations for seismic source-to-site response.
- Valeria Soto (CS) Numerical study for the evaluation of basin effects on the performance of nonlinear structures".

Pause 11h – 15min

- Eliane Youssef (ISTerre) Non-stationary shear-wave velocity randomization approach to account for 1D spatial variability effects in seismic site response
- Mayssa Dabaghi (Univ Beirut) Stochastic Modeling and Simulation of Near-Fault Earthquake Ground Motions
- Aline Bou Nassif (ISTerre) Effet de site topographique en champ proche : rôle de l'éclairage sismique et glissements de terrain induits

Dejeuner 12h45-14h15

- Irmela Zentner (EDF) Overview of EXAMIN project and spatial variability modelling with code_aster
- Florent De Martin (BRGM) EXAMIN WP2 - Numerical modelling of wave propagation at local and regional scale
- Pierre Gehl (BRGM) EXAMIN WP4 - Stochastic damage and loss scenarios applied to a road infrastructure in Grenoble
- Pierre Sochala (CEA) "Model reduction for large-scale earthquake simulation in an uncertain 3D medium"

Wrap up and coffee – fin 16h30