



The EU SPICE Project: a Digital Library with Codes and Training Material in Computational Seismology

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The EU funded Marie Curie Training Network "Seismic wave propagation and imaging in complex media: a European network" (SPICE) joins 14 institutions and several associated partners in a project that aims at carrying out research in the field of computational seismology. One of the key deliverables of the project is a www-based digital library with wave propagation codes, training material in numerical methods applied to the wave propagation problem and eventually simulation data. In 2005 the code library was initiated and several algorithms are now available to the scientific community. The goal is to provide any codes, tools, etc. that may be useful for researchers getting started in the field or observational seismologists interested in using the simulation techniques. In addition to sophisticated, parallelized 3D wave propagation algorithms based on finite differences, finite elements or the pseudospectral methods for local, regional, and global models there are also simple training codes that help getting started with a particular method or can be used in tutorials. The library also contains "classical" approaches like ray-theoretical approaches, the reflectivity and the normal mode methods. The goal of this paper is to make this library known to the scientific community and to invite interested scientist to test the algorithms or to use this platform to distribute their own simulation or processing tools. The library can be accessed through the project www pages <http://www.spice-rtn.org>.