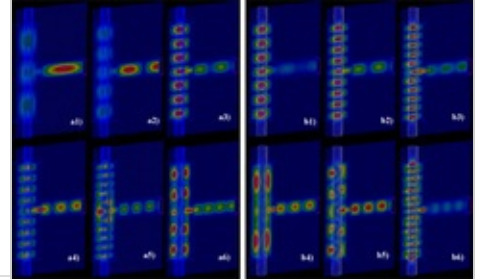


Platform for Innovative Nuclear FuEls (PINE)

Scope of project

Presently fast breeder reactor (FBR) fuels consist in pellets made of uranium-plutonium-oxide (U,Pu)O₂, clad in steel tubes. Within the CCEM PINE Platform we shall demonstrate the advantages of chemically and geometrically alternate fuel forms prepared by lesser and «simpler» processes, which show many physical and safety relevant advantages and are less expensive.



Electric field distribution in the cavity corresponding to the different resonant frequencies: Empty cavity a1–a6): 6.55GHz / 7.54GHz/ 8.79GHz / 10.22GHz / 11.84GHz / 12.17GHz.
Cavity with glass tube (b1–b6): 7.60GHz / 8.81GHz / 10.11GHz / 10.87GHz / 11.46GHz / 12.78GHz.

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