## A NEW APPROACH FOR RADIATIVE HEAT TRANSFER IN PARTICULATE MEDIA

J. L. Consalvi, B. Porterie, and J. C. Loraud IUSTI CNRS UMR 6595, Technopôle de Château-Gombert 5 rue E. Fermi, 13453 Marseille Cedex 13.

ABSTRACT. In this paper, a new approach to describe the radiative heat transfer in particulate media is presented using a multiphase radiative transfer equation. Comparisons with available Monte Carlo results for large opaque and semi-transparent particles are made. Good results are obtained for opaque particles whereas the model fails for semi-transparent particles due to transportation effects accross the particles.