

Modelling of Ar/Hg induction lamps with PLASIMO

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Session GT1 - Post-Deadline Session.

MIXED session, Tuesday morning, October 20 Plumeria/Jade Room, Aston Wailea

[GT1.07] Modelling of Ar/Hg Induction Lamps with PLASIMO

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In the last years various induction lamps have been announced by the major lighting companies. Examples are the Philips QL lamp, Osram's Endura and GE's Genura. In order to improve our understanding of such light sources some modelling has been done with the plasma simulation toolkit <u>PLASIMO</u>, which is being developed at the Eindhoven University of Technology.

PLASIMO has been designed as a general-purpose modelling tool for two-dimensional non-LTE plasmas. It consists of various submodels for the inductive coupling, the particle densities and velocities, the temperatures, the radiative transfer and others. Some results of the PLASIMO application to Philips' QL lamp will be shown. Comparisons will be made with the little experimental data which are available.

Part G of program listing