

PLASIMO radiation module

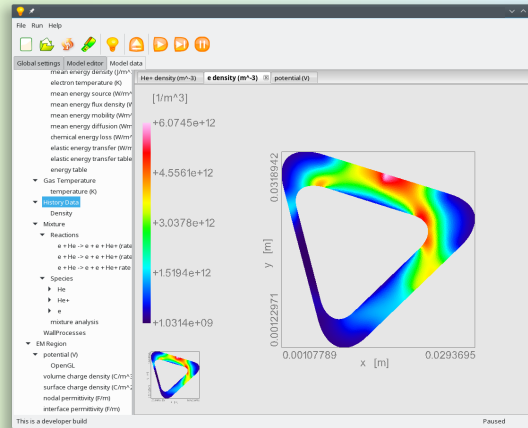
PLASIMO offers various methods for calculating the impact of emission and absorption of radiation in plasmas:

- Net emission coefficient calculator
- P1 method
- Raytracing

Input data

- PLASIMO's built-in database
- Compatible with HITRAN, ExoMol and NIST databases

- Created for modeling of plasmas with various degrees of equilibrium
- Designed as a flexible, user friendly modeling toolbox
- Available for Windows, macOS and Linux/Unix



The Plasma Simulation Software

PLASIMO

Radiation Modeling

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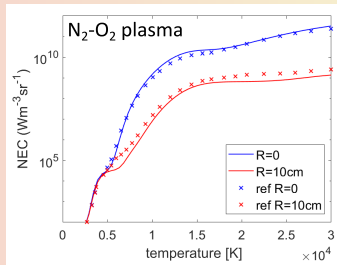
TU/e EINDHOVEN UNIVERSITY OF TECHNOLOGY

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Modeling radiation with PLASIMO

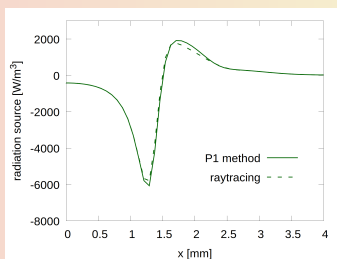
PLASIMO net emission coefficient calculator

The net emission coefficient method provides a fast way to account for radiative sources.



PLASIMO P1 method

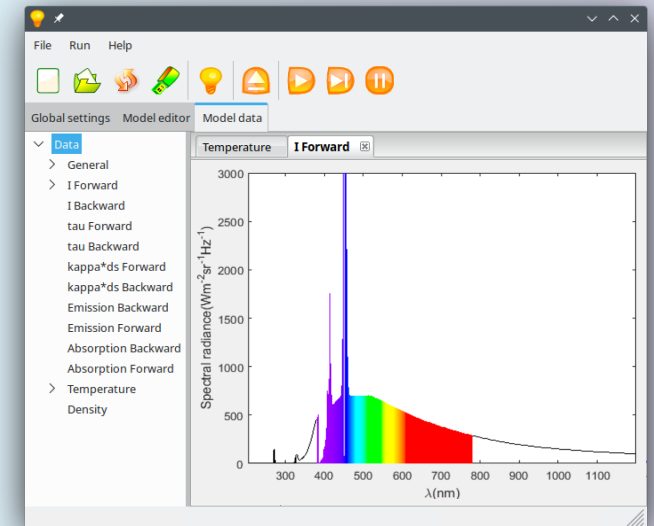
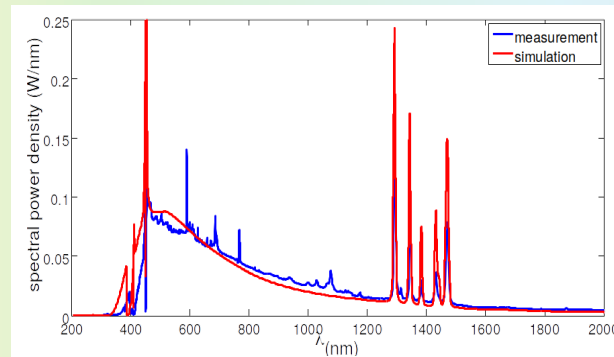
The P1 method yields spatial predictions of the radiative sources. These can compete with the accuracy of the raytracing method.



PLASIMO raytracing module

The raytracing module calculates the spectral radiance at every point in atomic or molecular plasma, accounting for emission and absorption processes.

- Produces the spectra of the light emitted by the plasma.
- Calculates particle and energy sources that can be consistently coupled to the balance equations in complete plasma models.



PLASIMO emission/absorption calculators

PLASIMO offers high quality calculators for local emission and absorption coefficients supporting a variety of broadening mechanisms, such as resonance, Stark, Van der Waals and instrumental broadening.

