

Analysis of Runaway Electrons by Numerical Algorithms

(ARENA, Originally was written by *Lars-Göran Eriksson* and *Per Helander* and the current project members are: *G. Csepany* (BME NTI), *T. Fülöp* (Chalmers), *G. Papp* (BME NTI, Chalmers), *G. Pokol* (BME NTI))

Completed:

- ▶ converting to F90 (and the code shortened by 50-60%)
- ▶ use modules (instead of Common blocks) to store data
- ▶ up to 4x faster binary using Intel compiler

Proceeded with:

- ▶ Use CPOs for some inputs on the gateway
- ▶ Use XML for input outside of the gateway

To be continued with:

- ▶ Get all input data from CPOs on the gateway
- ▶ Improve the code's physics