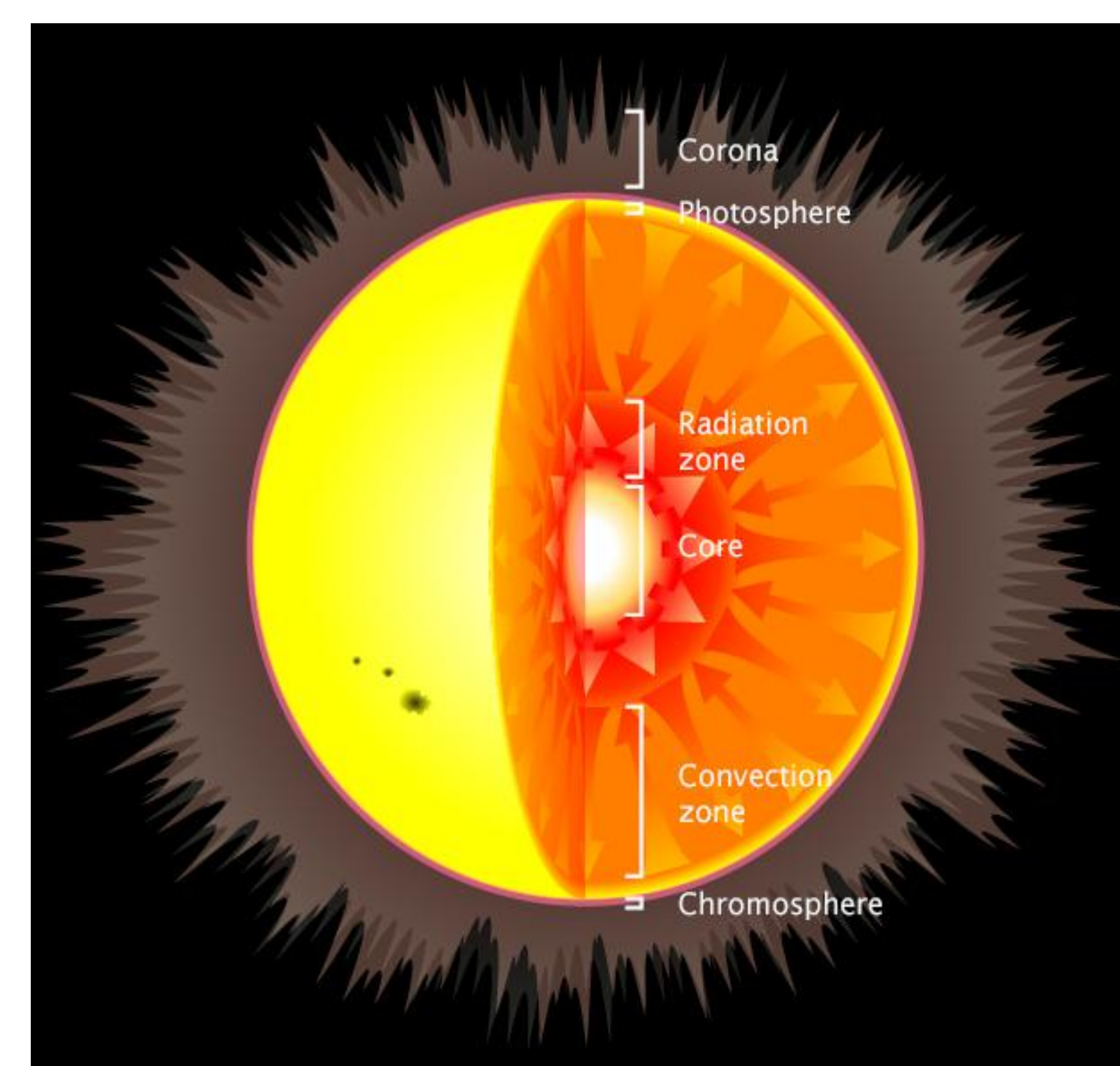




Global Optimization (GO)

Stochastic based global optimization challenges :

- Increase accuracy in global optimization methods
- Guarantee convergence to global solutions
- Improve efficiency in multi-local optimization algorithms to use in semi-infinite programming
- Solve problems with discrete variables
- Introduce linear constraints in the code
- Produce high-quality software
- Address practical problem in Astrophysics (stellar parameters estimation)



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Publications

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Software

MLOCPSOA - Software for multi-local optimization with interface to AMPL.

PSwarm - Software for global optimization with interface to AMPL (in C - serial and parallel versions - and MATLAB) (www.norg.uminho.pt/aivaz/pswarm). Also available in the NEOS server.

