

References

- [1] **G.Belvedere, L.Paterno', R.M.Pidatella, M.Stix** *The role of inhomogeneous heat tranport and anisotropic momentum exchange in the dynamics of stellar convection zones: application to models of the Sun's differential rotation.* Astron. Astrophys. 156, 22 -32, (1986).
- [2] **R.M.Pidatella, M.Stix** *Models of solar differential rotation.* Proc. of the 4th european meeting on solar physics (ESA-SP- 220) (1984).
- [3] **R.M.Pidatella, M.Stix** *Convective overshoot at the base of the Sun's convection zone.* Astron. Astrophys. 157, 338 - 340, (1986).
- [4] **G.Belvedere, R.M.Pidatella, M.Stix** *Gray's constant and "swiss cheese" and "sea serpents" in stellar convection zones.* Astron. Astrophys. 177, 183 - 185, (1987).
- [5] **G.Belvedere, L.Paterno', R.M.Pidatella** *Mass and angular momentum loss by AGN wind and the fate of suoermassive rotators.* Mon.Not.R.Astr.Soc., 237, 827 - 833, (1989).
- [6] **R.M.Pidatella** *3-D Mixed finite element schemes for charge transport equations.* Appl. Math. Lett. 4, 87 - 90, (1991).
- [7] **A.M.Anile, C.Maccora, R.M.Pidatella** *Simulation of $n^+ - n^- - n^+$ devices by a hydrodynamic model: subsonic and supersonic flows.* COMPEL 14, 1 - 18, 1995.

- [8] **A.M.Anile, C.Maccora, O. Muscato, R.M.Pidatella** *Hydrodynamical models for semiconductors* Proceedings of ECMI94, Springer - Verlag.
- [9] **O.Muscato, M.V. Fischetti, R.M. Pidatella** *Monte Carlo and hydrodynamical simulation of a one dimensional $n^+ - n - n^+$ silicon diode* VLSI Design 6, 247 - 250, 1998.
- [10] **A.M. Anile, N. Nikiforakis, R.M. Pidatella** *Assessment of a high resolution centered scheme for the solution of hydrodynamical semiconductor equations* SIAM J. of Sci. Comp. Vol. 22, N. 5, 1533 - 1548, 2000.
- [11] **A.M. Anile, N. Nikiforakis and R.M. Pidatella** *Moment equations for carrier transport in semiconductors* EQUADIFF Proceedings, Berlin, August 1999.
- [12] **A. Majorana and R.M. Pidatella** *A finite difference scheme solving the Boltzmann - Poisson system for semiconductor devices* J. of Comp. Phys., submitted.
- [13] **A. Majorana and R.M. Pidatella** *A New Finite Difference Scheme for the Boltzmann - Poisson System on Semiconductor Devices* Proc. of ECMI Palermo Sept. 2000.