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S. Chandrasekhar: White Dwarfs, \$H^-\$ ion,..., Black holes, **Gravitational waves**

Patrick Das Gupta

(Submitted on 18 Jul 2011 (v1), last revised 27 Feb 2012 (this version, v3))

This is a concise review, addressed to undergraduate students, of S. Chandrasekhar's oeuvre in astrophysics, ranging from his early studies on white dwarfs using relativistic quantum statistics to topics as diverse as dynamical friction, negative hydrogen ion, fluid dynamical instabilities, black holes and gravitational waves. The exposition is based on simple physical explanations in the context of observational astronomy. Black holes and their role as central engines of active, compact, high energy sources have been discussed.

Comments: Based on my lectures at the Nehru Planetarium, NMML, New

Delhi (India) as part of the Chandrasekhar birth centenary

celebrations

Subjects: History and Philosophy of Physics (physics.hist-ph);

General Relativity and Quantum Cosmology (gr-gc)

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