

## **Formation of Quark Phases in compact stars**

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I will discuss possible scenarios in which deconfined quark matter forms inside a Compact Star. The astrophysical implications of deconfinement will be outlined, in particular concerning the possible impact of deconfinement on explosive astrophysical phenomena, as Supernovae and Gamma Ray Bursts. Signatures in the neutrino emission will also be analyzed. In particular, the neutrinos detected in association with SN1987a will be reconsidered and an interpretation of all signals, including MontBlanc neutrinos, will be proposed.