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Super-Chandrasekhar white dwarfs

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Over more than a decade, along with my group members I have been exploring the possible violation of Chandrasekhar mass-limit significantly and possible new mass-limit(s). They are indirectly supported by some observations of peculiar type Ia supernovae. The potential reasons behind such a violation could be magnetic field, modified gravity, noncommutative spacetime etc. Many other groups also, following our initiation, showed similar violation based on alternate physics. I will attempt to review this topic and its evolution, based on the single degenerate scenario.

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Session Classification: Massive white dwarfs and related phenomena

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