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## Static and rotating white dwarfs at finite temperatures

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Static and uniformly rotating, cold and hot white dwarfs are investigated both in Newtonian gravity and general theory of relativity, employing the well-known Chandrasekhar equation of state. The mass-radius, mass-central density, radius-central density etc relations of stable white dwarfs with  $\mu = A/Z = 2$  and  $\mu = 56/26$  (where  $A$  is the average atomic weight and  $Z$  is the atomic charge) are constructed for different temperatures. It is shown that near the maximum mass the mass of hot rotating white dwarfs is slightly less than for cold rotating white dwarfs, though for static white dwarfs the situation is opposite.

**Primary author:** BOSHKAYEV, Kuantay (Kazakh National University)

**Presenter:** BOSHKAYEV, Kuantay (Kazakh National University)

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