

An alternative explanation of the magnetars

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ABSTRACT: Among the great unsolved problems of pulsar physics range those of (i) their cause of termination, at a (statistical) spindown age of P/\dot{P} around $10^6.4$ yr, (ii) the true ages of the ms pulsars, and (iii) the large overabundance of ms pulsars in a number of globular clusters. In my talk, i want to offer a simultaneous solution for them, which re-interprets the magnetars as dying (ordinary) pulsars whose magnetospheres are indented by low-mass accretion disks, assembled from their CSM. This reinterpretation sheds also new light on: (iv) the transient pulsars of McLaughlin et al [Nature 439,817(06)], (v) the sources of the (highest-energy) Cosmic Rays, and (vi) the sources of the (daily) Gamma-Ray Bursts, including (vii) the Soft Gamma-ray Repeaters.