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The ultraluminous pulsar

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M82 X-2, an ultraluminous X-ray source in M82, was recently shown to harbor an accreting neutron star. Its luminosity being ~ 100 times the Eddington limit for a neutron star, it poses some problems to the existing theoretical framework about accretion onto neutron stars.

I will talk about the properties and behavior of this source, how it was unveiled as a neutron star, the possible theoretical interpretations and some preliminary results coming from new observations of the M82 field.

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