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The curvature emission model of peculiar isolated neutron star 2XMM J104608.7-594306. (12+3)

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We construct non-thermal emission theory, interpreting the observational properties of a newly discovered pulsar 2XMM J104608.7-594306 in X-rays that is believed to be thermally emitting isolated neutron star. A different approach of curvature emission scenario is considered, giving the spectral energy distribution that is in a good agreement with the XMM-Newton observational data, which can be also successfully fitted with the pure Planckian spectral shape. We do not argue against thermal emission model relying on spectral analysis results, as additional observational properties are required for distinguishing between existing emission scenarios.

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