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Date: August 16, 2022 at 11:02:05 AM PDT
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arXiv:submit/4450967

From: J. E. Hirsch <jhirsch@ucsd.edu>

Date: Tue, 16 Aug 2022 14:01:55 EST (934kb)

Title: Comment on "On the analysis of the tin-inside- ^{57}Fe Mossbauer experiment"

Authors: J. E. Hirsch

Categories: cond-mat.supr-con

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Prozorov and Bud'ko recently analyzed the nuclear resonant scattering (NRS) experiment that reportedly demonstrated magnetic field exclusion in sulfur hydride under pressure, and concluded that the experiment is consistent with the expected behavior of a type II superconductor. Here I point out that their analysis shows that the reported NRS measurements are incompatible with the recently reported magnetization measurements by Minkov et al, indicating that at minimum one of these two experiments does not support the claim that sulfur hydride under pressure is superconducting.

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