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PO FSE Abruzzo 2007-2013, Piano Operativo 2012-2013

CFA LECTURE SERIES

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The cosmological ${}^7\text{Li}$ problem from a nuclear physics perspective

The primordial abundance of ${}^7\text{Li}$ as predicted by Big Bang Nucleosynthesis (BBN) is about a factor 3 larger than what has been observed in metal-poor halo stars. We analyze the possibility that this discrepancy originates from incorrect assumptions about the nuclear reaction cross sections relevant for BBN.

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