

Результаты эксперимента NA64 – на обложке европейского журнала

Престижный европейский журнал по физике The European Physical Journal разместил на обложке октябрьского выпуска результаты, полученные в эксперименте NA64 и опубликованные в статье “Probing the explanation of the muon ($g-2$) anomaly and thermal light dark matter with the semi-visible dark photon channel”, Eur. Phys. J. C (2021) 81:959.

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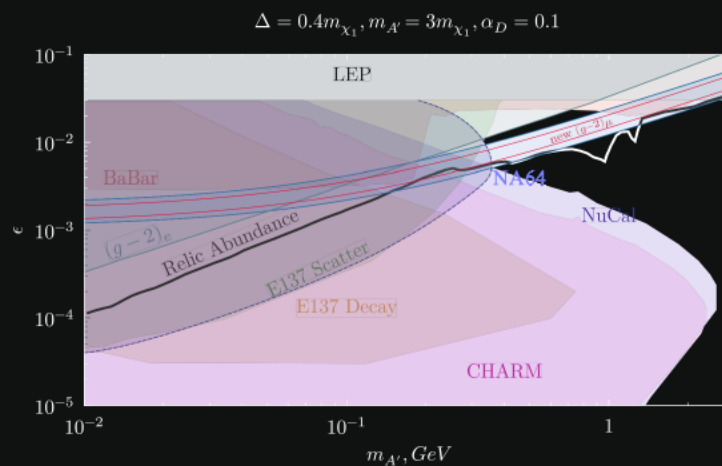
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The NA64 90% exclusion limit for a new vector boson A' with a coupling to electrons with decay mode $A' \rightarrow \chi_1 \chi_2 (\chi_2 \rightarrow \chi_1 e^+ e^-)$. The red band shows the region of parameter space within two sigma from the world average of $(g_\mu - 2)/2$. The blue band shows the same region before the results at Fermilab were published. Constraints from BABAR and E137 are also shown, together with the bounds of NuCal and CHARM. A thick black line shows the combination of parameters compatible with a DM thermal relic scenario.

From the NA64 Collaboration: Probing the explanation of the muon ($g-2$) anomaly and thermal light dark matter with the semi-visible dark photon channel, Eur. Phys. J. C (2021) 81:959



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