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The muon g-2 anomaly confronts new physics in □+ □– and □+ □– final states scattering

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The 4.2□ discrepancy between the theoretical prediction for the muon g-2 and the experimental results is accompanied by other anomalies. Determinations of the hadronic cross section from KLOE and BaBar, a crucial input for the data-driven prediction, disagree by almost 3 □. Furthermore, the data-driven result disagrees with the most precise lattice determination by 2.1 □. In this talk I will discuss how all these discrepancies could be accounted for by a new boson produced resonantly around the KLOE centre of mass energy and decaying promptly in □+ □– or □+ □– pairs.

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