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Towards radiative dipion cross section measurement at Belle II for the $g-2$

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The $g-2$ of the muon is one of the oldest (longstanding) potential anomalies in the standard model, although recent theoretical developments synthesized by the $g-2$ theory initiative and the most precise measurements carried out at Fermilab contributed to a shift in the field's landscape. However, tensions persist and are still very much unresolved in the data driven approach, with recent preliminary results by Babar confirming once more persisting discrepancies between the most precise experimental measurements. The talk will present these (relatively) new developments and expand on the ongoing efforts to provide an independent cross check at Belle II, which has never been realized before.

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