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The Milky Way's Stellar Halo

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The discovery of a large highly radially anisotropic kinematic structure dominating the vast majority of the stellar halo of the Milky Way (better known as the Gaia-Sausage-Enceladus merger debris, GSE) has prompted several studies in the recent years to report discoveries of other debris. Whilst evidence in favour of the GSE merger has continued to grow, the consensus around the origins of these lesser debris groups is highly debated. I will present results from our group at the ICCUB interpreting some of these new results through the lens of tailored and fully cosmological numerical simulations and discuss the implications of the GSE for the search of the most metal-poor and ancient stars in the MW.

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