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The Gaia mission: teamwork for a billion stars

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The European Space Agency's Gaia space mission, launched in 2013, is designed to measure the brightnesses, colors, positions, distances, and motions (in three dimensions) of almost two billion of the Milky Way's stars. Gaia also surveys hundreds of thousands of objects in the solar system and millions of quasars and galaxies beyond the Milky Way.

These measurements are yielding new insights about the internal structure and formation history of the Milky Way, thanks in part to a series of increasingly comprehensive data releases that any member of the astronomical community can access.

In this talk, I will introduce the Gaia mission, the team bringing the data releases to you, and summarize the latest release, Gaia DR3. This discussion will be complemented by highlights of the science results from the Gaia data releases, showcasing among others the impact of Gaia on solar system studies, the Milky Way's accretion and recent dynamical histories, and understanding matter in extreme states.