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Higgs Boson and Beyond: The Big Questions in Particle Physics

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This year's Nobel Prize in physics was awarded to two theorists that predicted the existence of the long-sought Higgs boson particle, which was discovered by teams of physicists at the Large Hadron Collider. This is no ordinary particle—it gives mass to other particles and completes our best theory of nature called the “standard model.” Is this end of the story? Far from it, as the standard model is an incomplete description of Nature even with a Higgs boson now observed. In this talk, I will discuss what we know about this new particle and the open questions in particle physics, the pursuit of which might lead to big discoveries on the horizon.