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Heavy Axion from the Twin Higgs

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A heavy axion avoids the quality problem and has been shown to produce interesting experimental signatures. A mirror sector has been invoked to explain how such axions can occur, often with a large hierarchy between the visible and mirror Higgs masses. I discuss a novel realization of the Twin Higgs framework that produces a heavy axion without this large hierarchy, addressing both the strong CP and electroweak hierarchy problems. I discuss the experimental constraints and discovery opportunities associated with this model.

Mini Symposia (Invited Talks Only)

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