

Fourth Generation: From B Factories, to Colliders and to the Cosmos

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Adding another generation to the Standard Model is just about the simplest extension available to us; yet it has profound consequences. While there are many motivations for it, it appears now that the data from B-factories is very difficult to reconcile with the CKM-paradigm with just three families. Addition of a new family is just about the simplest way to address these difficulties. That modification then leads very interesting implications for improved experiments at high intensity frontiers such as LHCb and Super-B factories. It also has important repercussions for search strategies at the LHC. The scenario not only has profound consequences for baryogenesis but also in providing a viable dark matter candidate.

Auteur principal: SONI, amarjit (BNL)

Orateur: SONI, amarjit (BNL)

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