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A new class of family non-universal Z' models

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Recent anomalies in B meson decays observed by the LHCb collaboration have motivated the construction of extensions of the Standard Model with a gauged family non-universal $U(1)$ factor. I will present a large class of family non-universal $U(1)$ gauge models for which flavor changing neutral currents are completely controlled by CKM matrix elements. I will discuss then phenomenological implications of these models, including the possibility to explain the LHCb anomalies.

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