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A new resolution of flavor problem in 2HDM with U(1) Higgs gauge symmetry

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Generic 2HDM's suffer from neutral Higgs mediated FCNC problem. Traditionally this problem is avoided by softly broken Z2 symmetry that distinguishes H1 and H2. In this talk I implement the softly broken Z2 symmetry to spontanesouly broken U(1) Higgs gauge symmetry. In this setup one often has to add new chiral fermions in order to maintain gauge anomaly cancellation. I discuss extensions of Type I, II, X, Y, and discuss some phenomenology.

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