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Explaining the Flavour Anomalies with Leptoquarks

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The recent intriguing hints for new physics in semi-leptonic B decays point towards lepton flavor universality violating extensions of the SM. Prime candidates for such new particles are leptoquarks which can provide the desired effects. After reviewing the current experimental and theoretical situation, I discuss the phenomenology of the vector leptoquark SU(1) singlet which was proposed already a long time ago in the context of the famous Pati-Salam model.

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