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The interpretation and prospects of the B meson anomalies

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B anomalies attract a lot of attention in the last few years. The charged current caused ratios of the tauonic semileptonic B decays to $D()$ and the muonic one indicate deviations from the standard model prediction. In the case of flavor changing neutral current processes ratio of muonic and electronic in B to $K()$ transitions and similar transitions of b to s $l^+ l^-$ in various decays again, there are deviations of measured and theoretically predicted values. In both anomalies, the differences are on the level 3 to 4 standard deviations. The presence of new particles usually explains both anomalies. I will review existing proposals of new physics and their consequences on theoretical and experimental studies.

Preferred track

Hadron Structure

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