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Semileptonic $B_{(s)}$ decays to charmless final-states and determination of the CKM element $|V_{ub}|$ ($10' + 5'$)

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Determinations of the magnitude of the CKM element $|V_{ub}|$ by exclusive and inclusive decays are currently at odds by about three standard deviations. In this talk we report new and updated results on charmless semileptonic B decays, based on the large data sample accumulated by the Belle experiment at the KEKB asymmetric-energy e^+e^- collider at KEK, Japan, which might help to clarify the experimental situation.

We also report the first absolute measurement of $calB(B_s \rightarrow D_s X)$ via tagging at the $\Upsilon(10860)$ resonance at Belle. The tagging of $B_s^{(*)} B_s^{(*)}$ events is obtained through reconstruction of semileptonic $B_s \rightarrow D_s X \ell \nu$ events. Previous measurements of this branching fraction are limited by model-dependence or large statistical uncertainties; a model-independent measurement enables improvements to the precision of the fraction f_s of B_s events at the $\Upsilon(10860)$ and anchors branching fractions of other B_s decays.

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