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Institute of Physics
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Invitation

to the seminar of Division of Elementary Particle Physics of the
Institute of Physics of the Czech Academy of Sciences



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Tau lepton mass

Abstract: Belle II detector in Japan belongs to the next generation of B factories, experiments primarily dedicated to explore properties of B mesons, particles containing b-quark. The goal of Belle II is to take a 100 times bigger dataset than its predecessor. We are far from that yet - current integrated luminosity of Belle II is half of the Belle one.

Thanks to the better detector resolution, even with this smaller dataset Belle II has already published several world-leading results, not only related to B mesons. One of them is the most precise determination of the tau lepton mass - one of the fundamental parameters of the Standard Model.

In the seminar, I will introduce methods used for measuring tau lepton mass at various experiments with a focus on the new Belle II result.

When: Thursday, June 22, 2023 at 2PM

Where: Main conference hall, Institute of Physics, Na Slovance 2, Prague 8

For more information, please see <https://indico.fzu.cz/event/140/>