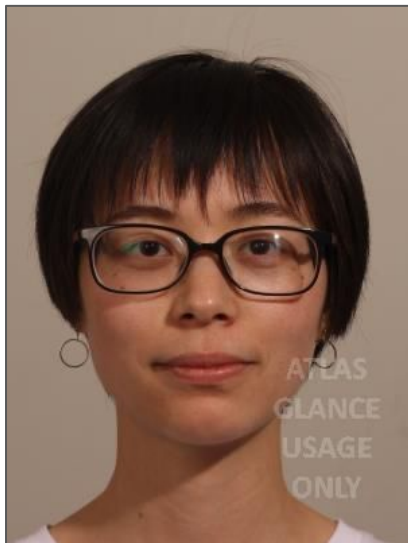


# – Flavor Tagging in ATLAS –

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The efficient identification of jets originating from heavy-flavour quarks is critical for many measurements in ATLAS, such as Higgs boson and top quark measurements as well as searches for physics beyond the Standard Model. Jets containing heavy-flavour have distinct characteristics. Current flavour-tagging algorithms explore machine learning techniques such as Deep Neural Networks and Graph Neural Networks/Transformer models to predict jet flavours by integrating these discriminating features. Calibration of these algorithms is essential to ensure their reliability in physics analysis. This lecture will provide a comprehensive overview of advanced flavour tagging algorithms and calibration methods.