The centres of galaxies provide superb laboratories for studying the interplay between stellar dynamics, hydrodynamics, star formation, stellar feedback, and supermassive black holes. New technological developments, such as high-resolution integral field spectrographs with adaptive optics, allow us to study these regions with an unprecedented level of detail. This course of lectures and hands-on projects will provide young researchers with a thorough preparation for understanding the observed properties of galaxy centres and the theory behind them.

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