

## Aspects of 6D theories: geometric engineering and holography

*Friday, 18 December 2015 09:00 (2 hours)*

6D theories are in between the most elusive and interesting supersymmetric systems whose existence is predicted by string theory. The main aim of the first part of these lectures is to convince the audience that this is the case, and to review their geometric engineering in M-theory and F-theory, with emphasis on the recent results obtained by means of the latter. In the second part of the lectures, we will focus on the brane constructions in type IIA, involving NS5, D6, and D8 branes. We will then link holographically these brane configurations to the AdS<sub>7</sub> gravity dual solutions of massive IIA supergravity.

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