Logikseminar WiSe 2018/19 Prof. Dr. Martin Otto

VARIATIONS ON THE THEME OF MODAL LOGICS
(MSc Seminar in Logic)

Logics that share essential features with classical modal logic form a rich family and have been investigated in various semantic contexts. In the seminar we want to explore some of those variants with a model-theoretic approach. Possible themes involve alternative semantics for modal logics (*team semantics*, *algebraic* and *co-algebraic semantics*), particular semantic contexts (*temporal logics*, *epistemic logics*), connections with *automata theory*, *logic and logic games* and *complexity issues*, extensions to richer and more expressive formats (*guarded logics*, *inquisitive logics*).

The seminar presupposes some general background knowledge from an introduction to modal logic (lecture course or textbook sources) and a basic understanding of model-theoretic notions (as for instance from an introduction to mathematical logic, or courses on logic in computer science). Besides the oral presentation, participants will typically produce a handout and written summary.

For further planning of the seminar it is essential that, apart from registration in TUCaN, prospective participants contact me as soon as possible:
`otto@mathematik.tu-darmstadt.de`