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Kolloquium Logik und Sprachtheorie
Dr. Reinhard Kahle

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Vortragsankündigung

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Applikative Theorien und Komplexität

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Abstract:

Theories with self-application form the operational core of Feferman's systems of explicit mathematics. In this talk we discuss (unramified) bounded applicative systems which have a strong relationship to classes of computational complexity. We provide new applicative theories whose provably total functions coincide with the functions computable in polynomial time, polynomial space, polynomial time and linear space, as well as linear space. Some emphasis will also be put on higher type aspects of the applicative systems under discussion.

`http://www-ls.informatik.uni-tuebingen.de/logik/Kolloquium/index.html`