



# Einladung zum Oberseminar Dynamische Systeme und Kontrolltheorie

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### Global attractors of interconnected systems

We consider two systems possessing invariant and globally attracting sets  $A_1$  and  $A_2$ , respectively (global attractors) and assume that each attracting set is robust with respect to external perturbations in the input-to-state stability sense. We ask, under which conditions an interconnection of these systems possesses the same property with respect to some set  $A$ . An important part of this question is, how the corresponding attracting set  $A$  of the interconnection can look like. Lyapunov techniques and small-gain approach will be applied in order to answer these questions.

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Zu diesem Vortrag laden wir Sie herzlich ein.

*gez. Sergey Dashkovskiy*