A COBORDISM APPROACH TO CALIBRATED SUBMANIFOLDS

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While complex submanifolds in Kähler manifolds can often be treated nicely using algebraic methods, other types of calibrated submanifolds are more elusive. We want to present a framework that allows to treat calibrated submanifolds in manifolds of special holonomy in a more flexible manner.
In the second part of the talk, we give applications to the theory of associative submanifolds of G2-manifolds.

(this is a joint project with Andriy Haydys and Friso van Dijk)