

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

Monday, 21 November 2022, 12:15-13:00

Seminarraum 05.002, Spiegelgasse 5

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Introduction to BEM and H-matrices

ABSTRACT

Numerically solving some classes of linear PDEs in which no source term is present inside the computational domain can be reduced to solving a linear problem on the boundary. This talk is an introduction to the so-called boundary element method and hierarchical matrices. These are data structures introduced for an efficient discretization of the linear operators defining the problem on the boundary.