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Bounded Approximation Property for some Sobolev spaces.

ABSTRACT. (This is a joint work with Michał Wojciechowski of Polish Academy of Sciences.)

The Bounded Approximation Property is a necessary condition for a Banach space to have a Schauder basis. It is known for some classical Banach spaces, in particular for Sobolev spaces on domains with a "nice" boundary. I will present a geometrical construction which allows to show the Bounded Approximation Property for an arbitrary planar simply connected domain.