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Xiang Fang* (xfang@ksu.edu), 138 Cardwell Hall, Manhattan, KS 66506. *Abstract Fibre Dimension.*

We start with an observation that the fibre dimension, usually defined in a straightforward manner, is not an intrinsic invariant of the underlying Hilbert module. We propose that the appropriate definition is a "relative fibre dimension". I will give three different ways to define it, with one easily generalizing to the Fredholm domain of any operator.

In addition to a general framework, I will also present some more concrete results which appear to be new even for the Dirichlet space over the unit disc. (Received June 14, 2011)