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The homotopy factorisation system of n -connected maps and n -covers

The classes of n -connected maps and n -covers form a homotopy factorisation system in the category of simplicial sets. This has important applications in the theory of Postnikov systems and elsewhere in homotopy theory, for example in the theory of n -topoi of Toen, Vezzosi and Lurie. We study some of its basic properties.

This is work with Andre Joyal.