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Poset bundles

Let B be a poset and F be a PL manifold. We define a *poset F -bundle* to be a function from B to the set of posets with order complex PL homeomorphic to F satisfying certain simple combinatorial conditions, and show how any poset F -bundle gives rise to a piecewise-linear F -bundle in a natural way. As an application, we give a construction of a PL sphere bundle associated to any matroid bundle.

This is joint work with Eric Babson.