

Aspherical manifolds and maps of non-zero degree

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Abstract: We discuss questions on aspherical manifolds, in particular related to the existence of maps of non-zero degree. In this talk, special emphasis is given to the case where the domain is a direct product. We show applications related to the vanishing of the simplicial volume, an ordering of the non-hyperbolic Thurston geometries in dimension four, and the monotonicity of Kodaira dimensions with respect to the existence of maps of non-zero degree.