

Lefschetz fibrations and symplectically aspherical groups

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We are interested in closed symplectically aspherical manifolds, and ask a question what groups can be realized as fundamental groups of such manifolds? In order to answer this question we find conditions ensuring the symplectic asphericity of total spaces of Lefschetz fibrations. This yields some realization results. This is a joint work with Kedra and Rudyak, and it is a continuation of the previous work.