

Lower Bound Theorems for manifolds and balanced manifolds.

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We will survey several recent lower bound theorems on face numbers of triangulations of homology manifolds (with and without boundary) as well as of balanced triangulations of closed homology manifolds. These results are from joint papers with Satoshi Murai and with Martina Juhnke-Kubitzke, Satoshi Murai, and Connor Sawaske.