Brill Noether loci and the Lagrangian Grassmannian

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Abstract: Brill-Noether loci of vector bundles on linear curve sections of the Lagrangian Grassmannian LG(3,6) are identified with orthogonal linear sections of the dual variety. We prove and generalize this result of Mukai using a theorem of independent interest: The projection from the node of any nodal hyperplane section of the Lagrangian Grassmannian is a linear section of the Grassmannian Gr(2,6).