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**Susanne Brenner, Peter Monk and Jiguang Sun\*** (jiguangs@mtu.edu), Fisher 313, MTU,  
1400 Townsend Dr., Houghton, MI 49931. *C0IPG Method for Biharmonic Eigenvalue Problems.*

We investigate the  $C^0$  interior penalty Galerkin ( $C^0$  IPG) method for biharmonic eigenvalue problems with the boundary conditions of the clamped plate, the simply supported plate, and the Cahn-Hilliard type. We prove the convergence of the method and present numerical results to illustrate its performance. We also compare the  $C^0$  IPG method with the Argyris  $C^1$  finite element method and the Ciarlet-Raviart mixed finite element method. (Received September 02, 2014)