

Methods	well-defined	inf-sup	symmetry	positive definite	size
Lagrange multiplier	depends	depends	yes	no	enlarged
Dual mortar	yes	depends	yes	yes	reduced
Perturbed Lagrange multiplier	yes	depends	yes	no	enlarged
Stablized Lagrange multiplier	depends	yes	yes	no	enlarged
Discontinuous Galerkin	depends	yes	depends	yes	same

Table 1: Property comparison of Lagrange multiplier, dual mortar, perturbed Lagrange multiplier, stabilized Lagrange multiplier and discontinuous Galerkin methods .