

Einstein	Lovelock (generalized Einstein)
E_{ij} : symmetric 2-tensor, divergence-free	F_{ij} : symmetric 2-tensor, divergence-free
$E = \text{Poly}(g, \partial g, \partial^2 g)$, linear in $\partial^2 g$	$F = \text{Poly}(g, \partial g, \partial^2 g)$, nonlinear in $\partial^2 g$ allowed
Critical for $\int \text{scal}_g \, \text{dvol}_g$	[Lab08]: Critical for $\int \text{scal}_g^{(2q)} \, \text{dvol}_g$
Solution space spanned by $g, \text{Ric}(g)$	Solution space spanned by $g, \text{Ric}(g),$ $\text{Ric}^{(4)}(g), \dots, \text{Ric}^{(\lfloor n/2 \rfloor)}(g)$
DeTurck trick	[Alb20]: DeTurck trick