## Sensitivity coefficients in the $\mathbb{Z}_2\text{-symmetric Einstein-scalar-Gauss-Bonnet theory}$

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## First sensitivity

$\beta_1^{(1)} = -$	$-\frac{1}{2}$ ,	(1a)
$\beta_2^{(1)} = -$	$-\frac{73}{480}$ ,	(1b)
$\beta_3^{(1)} = -$	$-\frac{12511}{241920}$ ,	(1c)
$\beta_4^{(1)} = -$	$-\frac{227192473}{12773376000},$	(1d)
$\beta_5^{(1)} = -$	$-\frac{12207964319}{1992646656000},$	(1e)
$\beta_6^{(1)} = -$	$-\frac{1182444744943999}{560207699251200000},$	(1f)
$\beta_7^{(1)} = -$	$-\frac{47557422073067386027}{65396405979788083200000},$	(1g)
$\beta_8^{(1)} = -$	$-\frac{33673951270828567910071349}{134398669175446327787520000000},$	(1h)
$\beta_9^{(1)} = -$	$-\frac{184191744116332226502250346557}{21337132718293858999546675200000000},$	(1i)
$\beta_{10}^{(1)} = -$	$-\frac{48519296721732727237300202245396785169}{1631343284256787966125740780421120000000000},$	(1j)
$\beta_{11}^{(1)} = -$	$\frac{1913414756387717383189786680038392301057}{1867260620749308071996232524051251200000000000000000000000000000$	(1k)
$\beta_{12}^{(1)} = -$	$\frac{634381566480074306640515177086823578111081122340783}{1796847958546324713158038323267032875291115520000000000000},$	(11)
$\beta_{13}^{(1)} = -$	12130496646148897684418595304363509078066214102707877 99725061699321021580271126941320324578656911360000000000000000000000000000000000	(1m)
$\beta_{14}^{(1)} = -$	$-\frac{73089088888046703547607558979286847144825897230896491794817}{174398696945622698189933443921740657123095742429265920000000000000}.$	(1n)

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## Second sensitivity