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trace formula

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Let Γ be a compact Lie group acting on V and let $\Sigma\subset\Gamma$ be a Lie subgroup. Then

 $\dim \operatorname{Fix}(\Sigma) = \int_{\sigma \in \Sigma} \operatorname{trace}(\sigma)$

where \int denotes the normalized Haar integral on Σ and Fix(Σ) is the fixed-point subspace of Σ .

References

[GSS] Golubitsky, Martin. Stewart, Ian. Schaeffer, G. David: Singularities and Groups in Bifurcation Theory (Volume II). Springer-Verlag, New York, 1988.