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Poénaru (1976) theorem

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Let Γ be a compact Lie group and let g_1, \dots, g_r generate the module $\vec{\mathcal{P}}(\Gamma)$ (*the space of Γ -equivariant polynomial mappings*) of Γ -equivariant polynomials over the ring $\mathcal{P}(\Gamma)$ (*the ring of Γ -invariant polynomial*). Then g_1, \dots, g_r generate the module $\vec{\mathcal{E}}(\Gamma)$ (*the space of Γ -equivariant germs at the origin of C^∞ mappings*) over the ring $\mathcal{E}(\Gamma)$ (*the ring of Γ -invariant germs*). [?]

References

- [GSS] Golubitsky, Martin. Stewart, Ian. Schaeffer, G. David: Singularities and Groups in Bifurcation Theory (*Volume II*). Springer-Verlag, New York, 1988.
- [PV] Poénaru, V.: Singularités C^∞ en Présence de Symétrie. Lecture Notes in Mathematics 510, Springer-Verlag, Berlin, 1976.