

## Singularity Theory in Yakam Matrix by Multiparameter Bifurcation Interfacial in Coupled Problem

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**Abstract :** The theoretical machinery from singularity theory introduced by Golubitsky, Stewart, and Schaeffer, to study equivariant bifurcation problem is completed and expanded while generalized to the multiparameter context. In this setting the finite determinacy theorem or normal forms, the stability of equivariant bifurcation problem, and the structural stability of universal unfolding are discussed. With Yakam Matrix the solutions are limited for some partial differential equations stochastic nonlinear of the open questions in singularity artificial intelligence for future.

**Keywords :** equivariant bifurcation, symmetry singularity, equivariant jets and transversality; normal forms, universal unfolding instability, structural stability, artificial intelligence, pde's, yakam matrix

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