

Seventeenth International Conference Zaragoza-Pau on Mathematics and its Applications
Jaca, September 4–6th 2024

Varieties of representations and three manifolds

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SUMMARY

The study of geometric structures on 3-manifolds involves the varieties of representations, the set of all representations of fundamental groups of three-manifolds into Lie groups. These varieties have an algebraic structure that appears to be related with the topology of the manifold. In the talk I aim to survey some of the results and questions in the field.

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