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All unitary representations admit moment mappings. (English) [Zbl 0795.22006](#)

Szente, J. (ed.) et al., Differential geometry and its applications. Proceedings of a colloquium, held in Eger, Hungary, August 20-25, 1989, organized by the János Bolyai Mathematical Society. Amsterdam: North-Holland Publishing Company. Colloq. Math. Soc. János Bolyai. 56, 477-489 (1992).

In the first part of the paper the most important results of the Frölicher Kriegl calculus are sketched. The second part is a review of the results obtained by the author [*J. Global Anal. Geom.* 8, 299-313 (1990; [Zbl 0729.22016](#))].

For the entire collection see [[Zbl 0764.00002](#)].

Reviewer: [H. Brodersen \(Oslo\)](#)

MSC:

[22E45](#) Representations of Lie and linear algebraic groups over real fields: analytic methods

[Cited in 1 Document](#)

[58C20](#) Differentiation theory (Gateaux, Fréchet, etc.) on manifolds

[46E10](#) Topological linear spaces of continuous, differentiable or analytic functions

Keywords:

Lie group; unitary representations; moment mapping; Frölicher Kriegl calculus