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Topological classification of unitary functions of arbitrary genus.
(a joint work with S. M. Natanzon, Russian Math. Surveys, 55 (2000), 1163–1164)

An unitary function is a triple (P, τ, f), where (P, τ) is a real algebraic curve and $f\colon P \to \mathbb{C}\mathrm{P}^1$ is a meromorphic function, s.t. $f(\tau(z)) = (\overline{f(z)})^{-1}$.
We give a topological classification of unitary functions with fixed topological type of the pole divisor. The corresponding topological invariants distinguish a connected component in the space of unitary functions.