## Pick interpolation and invariant functions

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In this talk, we shall discuss the role of invariant functions in the Pick interpolation problem. Given a Carathéodory hyperbolic domain  $\Omega$  in some  $\mathbb{C}^m$ , I have introduced a notion of an invariant function that gives a necessary and sufficient condition for any Pick interpolation problem to be solvable on  $\Omega$ . This invariant function plays the same role as that of Carathéodory pseudodistance in the two-point Pick interpolation problem. Furthermore, a full description of the invariant function is given when  $\Omega$  is the open unit disc.