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Abstract: Siegel compacta (or hedgehogs) in dimension one were introduced by Yoccoz and Pérez-Marco in the '90s to study linearization properties and dynamics of holomorphic univalent germs of (C, 0) with a neutral fixed point and solve important problems in the field such as the Dulac-Moussu conjecture and the Briot and Bouquet problem. In this talk we discuss Siegel compacta, their maximality, and their dynamics for germs of holomorphic diffeomorphisms of (C^n, 0) with a semi-neutral fixed point. We present a series of applications in higher dimensional complex dynamics. This is based on joint work with Tanya Firsova, Mikhail Lyubich, and Raluca Tanase.