

# Realizations of elliptic affine Lie algebras

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In this talk we discuss how to construct boson type realizations of elliptic affine Lie algebras of the form

$$\mathfrak{sl}(2, R) \oplus \Omega_R/dR,$$

where  $R = \mathbb{C}[t, t^{-1}, u \mid u^2 = t^3 - 2bt^2 + t]$ .