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*Interpretation theory using the metabelian
Baumslag–Solitar group $BS(1, k)$ as an example.*

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Abstract:

We will discuss various types of interpretations – absolute, parameterized, regular, invertible, and bi-interpretations – and explore their respective properties and implications. To illustrate the theory, we consider interpretations between the ring of integers \mathbb{Z} and the metabelian Baumslag–Solitar group $BS(1, k)$ for $k > 1$.

Based on a joint work with A. Miasnikov.