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On systems of equations over free partially commutative groups

Using an analogue of Makanin–Razborov diagrams, we give an effective description of the solution set of systems of equations over a partially commutative group (right-angled Artin group) G. Equivalently, we give a parametrisation of $\mathrm{Hom}(H, G)$, where H is a finitely generated group.