

GRÖBNER-SHIRSHOV BASES FOR ARTIN MONOIDS OF THE 3-EXTENDED AFFINE ROOT SYSTEMS OF TYPE A_1

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Abstract

We give Gröbner-Shirshov bases for Artin monoids of the 3-extended affine root systems of types $A_{l}^{(1,1,1)}$ and $A_{l}^{(1,1,1)*}(i)$ $(1 \le i \le 5)$.

Keywords and phrases: Gröbner-Shirshov basis, Artin monoid.

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