

# Double axes

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## **Abstract**

We will be discussing axial subalgebras of Matsuo algebras involving double axes. In particular, we present the complete classification of subalgebras of A-type (generated by a single axis and a double axis) and subalgebras of B-type (generated by two double axes). We also present partial results about 3-generated subalgebras (types C through E). We also describe the construction of an infinite series of subalgebras of dimension  $n^2$ .

This work is done in collaboration with Alexey Galt, Andrey Mamonov, Alexey Staroletov and Sergey Shpectorov.