

## ALL NON-COMMUTING SOLUTIONS OF THE YANG-BAXTER MATRIX EQUATION FOR A CLASS OF DIAGONALIZABLE MATRICES

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*Abstract.* Let  $A$  be a complex matrix such that its square equals the identity matrix. We solve the matrix equation  $AXA = XAX$  to construct all the solutions. This finishes our task for finding all the non-commuting solutions, continued from the authors' previous work.

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