

# Mixed Nash equilibria in Eisert-Lewenstein-Wilkens (ELW) games

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The classification of all mixed Nash equilibria for the original ELW game is presented. It is based on the quaternionic form of the game proposed by Landsburg (S. Landsburg, Proc. Am. Math. Soc. 139 (2011), 4423; S. Landsburg, Rochester Working Paper No 524 (2006); S. Landsburg, Wiley Encyclopedia of Operations Research and Management Science (Wiley and Sons, New York, (2011)). This approach allows to reduce the problem of finding the Nash equilibria to relatively simple analysis of the extrema of certain quadratic forms.