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Weddle surfaces and 3-level moduli spaces of abelian surfaces

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It is well known that the threefold

known as the Bürkhardt quartic is deeply related to moduli spaces of abelian surfaces with some 3-level structure, in particular to and

. We show another such relation with , a moduli space that we introduce, parametrizing principally polarized abelian surfaces with a symmetric theta structure and the choice of an odd theta characteristic. We shall build the arithmetic group that defines as a quotient of the Siegel half-space and prove that it is birational to thus giving a moduli interpretation to the classical unirationalization of given by Weddle quartics. We also investigate the relation between these quartics, Kummer surfaces and the Igusa quartic.

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