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the Weyl algebra

Mathematical Physics

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Self-adjoint commuting differential

(Submitted on 18 Jul 2011 (v1), last revised 8 Apr 2012 (this version, v2))

operators and commutative subalgebras of

In this paper we study self-adjoint commuting ordinary differential operators. We find sufficient

conditions when an operator of fourth order commuting with an operator of order \$4g+2\$ is selfadjoint. We introduce an equation on coefficients of the self-adjoint operator of order four and some

additional data. With the help of this equation we find the first example of commuting differential

polynomial coefficients and define commutative subalgebras of the first Weyl algebra.

operators of rank two corresponding to a spectral curve of arbitrary genus. These operators have

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