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NC 27695-8205. *Irreducible characters of spin wreath products.*

In connection with McKay correspondence and affine Lie algebras, Frenkel, Jing and Wang fixed the irreducible characters and determined a large part of the complex irreducible character values of spin wreath products of Γ and S_n via vertex operator calculus about ten years ago. In the current work we find the missing part of the character table for general Γ . Moreover, in the special case of abelian Γ the irreducible modules are constructed explicitly by the Mackey-Wigner method of little groups. This joint work with Xiaoli Hu. (Received January 16, 2012)