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The Twisted Tensor L-function of GSp_4 .

I will give an integral representation for the twisted tensor or Asai L -function for a generic cuspidal representation of GSp_4 and discuss the method of proof using a branching result, namely, restriction from GL_4 to Sp_4 . I will also illustrate a cuspidal period arising as a residue of this integral and discuss its connection with quadratic base change for GSp_4 . (Received March 30, 2010)