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A Milas* (antun.milas@gmail.com), 1400 Washington Ave, Albany, NY 12222. *Whittaker vectors and the AGT conjecture.*

We construct a family of nonstandard (Whittaker) representations for certain W -algebras, including the Virasoro algebra. This construction is motivated by a conjecture of Alday, Gaiotto and Tachikawa relating 2d Liouville theory and the Nekrasov partition function. We also explain how to generate Whittaker vectors (or Gaiotto's states) in the completion of the Verma module. (Received September 14, 2010)