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Mustafa Hajij* (mustafa.hajij@yahoo.com), 4243 Burbank Dr Apt 102, Baton Rouge LA, LA 70808. *Andrews-Gordon identities via the tail of the colored Jones polynomial*. Preliminary report.

The tail of the colored Jones polynomial of an alternating link L , introduced by C. Armond O. Dasbach, is an invariant which takes the form of formal q -series with integer coefficients. We give a skein theoretic method to compute the tail for a large class of knot. Furthermore we use our techniques to prove classical identities in number theory. (Received August 08, 2013)