1056-11-1864 **Dominic Lanphier*** (`dominic.lanphier@wku.edu`), Department of Mathematics, Western Kentucky University, 1906 College Heights Blvd #11078, Bowling Green, KY 42101-1078. *Values of Asai L-functions and combinatorial identities.* Preliminary report.

We study an integral representation of the Asai L-function. This integral, originally due to Ghate, can be used to obtain certain special value results of the L-function. Ghate made an explicit conjecture concerning the gamma factors of this integral, and we investigate this conjecture. As a consequence we obtain some interesting combinatorial identities. (Received September 22, 2009)