1056-11-751 **Barry R. Smith*** (bsmith@math.uci.edu), 340 Rowland Hall, Irvine, CA 92697-3875. Divisibility properties of values of partial zeta functions at non-positive integers. Preliminary report.

The values of the partial zeta functions for an abelian extension of number fields at non-positive integers are rational numbers with known bounds on their denominators. I will discuss a new conjecture that provides sharper bounds and consider conditions under which the conjecture is valid. (Received September 16, 2009)