atm pdf hatm 50000 S **Entries** 699514 8.622 Mean x 45000 Mean y 6978 RMS x 4.855 40000 RMS y 2741 35000 0.1 30000 0.08 25000 20000 0.06 15000 0.04 10000 0.02 5000 0 L 0 8 10 12 16 18 20 14 S1