

**A CERTAIN NECESSARY CONDITION OF POSSIBLE BLOW UP  
FOR THE NAVIER-STOKES EQUATIONS**

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ABSTRACT. We discuss a proof of the following fact. Assume that  $T$  is a blow up time for the Navier-Stokes equations. Then the spatial  $L_3$ -norm of the velocity field tends to infinity as the time  $t$  approaches  $T$ .