

Abstract Submitted  
for the APR06 Meeting of  
The American Physical Society

**Search for Neutral Supersymmetric Higgs Bosons in  $bbh$**  MARINE  
MICHAUT, DAPNIA/SPP, Saclay, D0 COLLABORATION — Many extensions  
of the Standard Model predict greatly enhanced production rates of neutral Higgs  
bosons in association with bottom quarks. The Tevatron Run II data collected by  
the DØ detector are used to search for Higgs bosons in  $bh(\rightarrow b\bar{b})$  and  $b\bar{b}h(\rightarrow b\bar{b})$   
channels that result to  $3b$ -jet and  $4b$ -jet final states, respectively. The status of the  
current data analysis, and expectations for Run II are presented.

Suyong Choi  
SungKyunKwan University

Date submitted: 12 Jan 2006

Electronic form version 1.4