

**High Power Test of the Waveguide Loaded RF Cavity for the Frascati  $\Phi$ -Factory Main Rings,**  
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DAΦNE is a high current, multibunch electron-positron  
double ring collider in construction in Frascati. The  
high order modes (HOMs) of the accelerating cavities  
can drive longitudinal and transverse coupled-bunch  
instabilities. A single-cell cavity connected to the  
vacuum chamber through long tapered beam tubes and  
loaded with rectangular waveguides to damp the HOMs  
has been designed, fabricated and high power tested.  
This paper reports the results of the power tests and the  
up to date progress of the whole DAΦNE RF system.