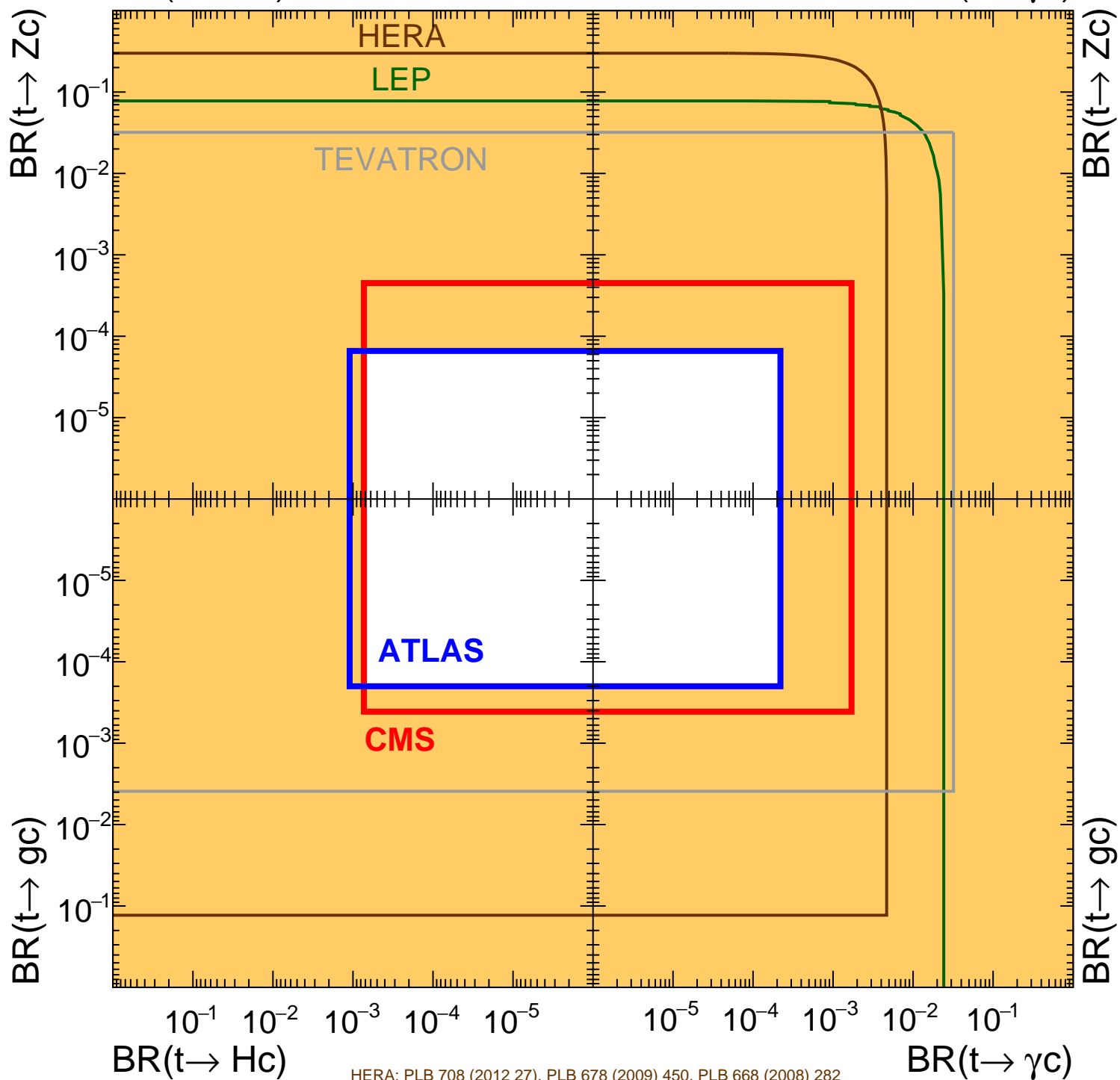


ATLAS limits on  $t \rightarrow \gamma q$  and  $t \rightarrow Z q$  are valid for the case of a purely LH coupling.

BR( $t \rightarrow Hc$ )

Each limit assumes that all other processes are zero.

BR( $t \rightarrow \gamma c$ )



BR( $t \rightarrow Hc$ )

BR( $t \rightarrow \gamma c$ )

HERA: PLB 708 (2012 27), PLB 678 (2009) 450, PLB 668 (2008) 282  
 LEP: PLB 543 (2002) 173, PLB 590 (2004) 21, PLB 521 (2001) 181, PLB 549 (2002) 290, LEP Exotica WG 2001-01  
 TEVATRON: PRL 80 (1998) 2525, PRL 101 (2008) 192002, PLB 701 (2011) 313-320, PRL 102 (2009) 151801, PLB 693 (2010) 81-87  
 ATLAS: JHEP 05 (2019) 123, PLB 800 (2020) 135082, EPJC 76 (2016) 55, ATLAS-CONF-2021-049  
 CMS: CMS-PAS-TOP-17-017, JHEP 04 (2016) 035, JHEP 02 (2017) 028, CMS-PAS-TOP-20-007