

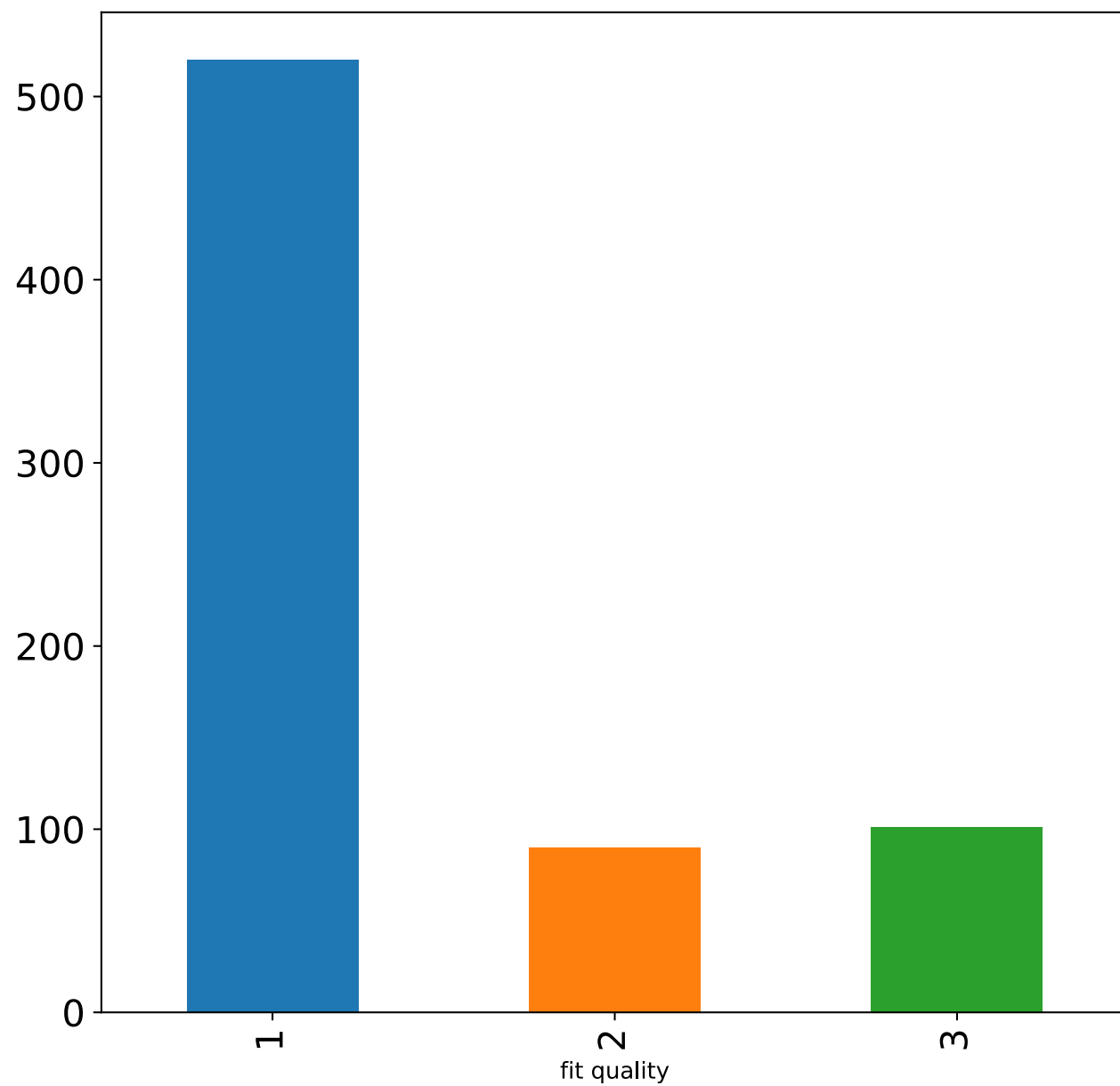


BROAD LINE BLACK HOLE MASSES DR2

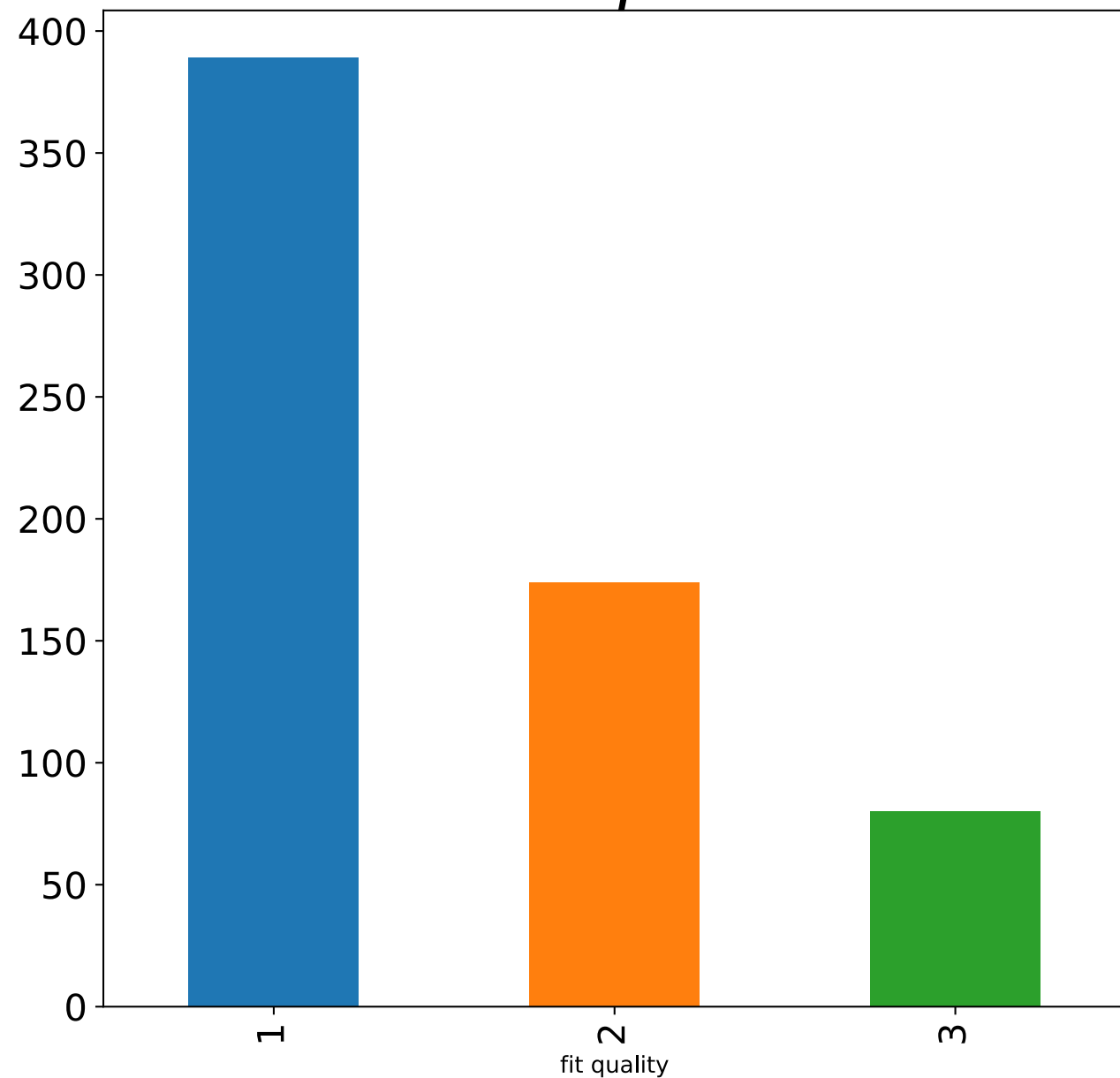
Julián Mejía-Restrepo
ESO-Fellow



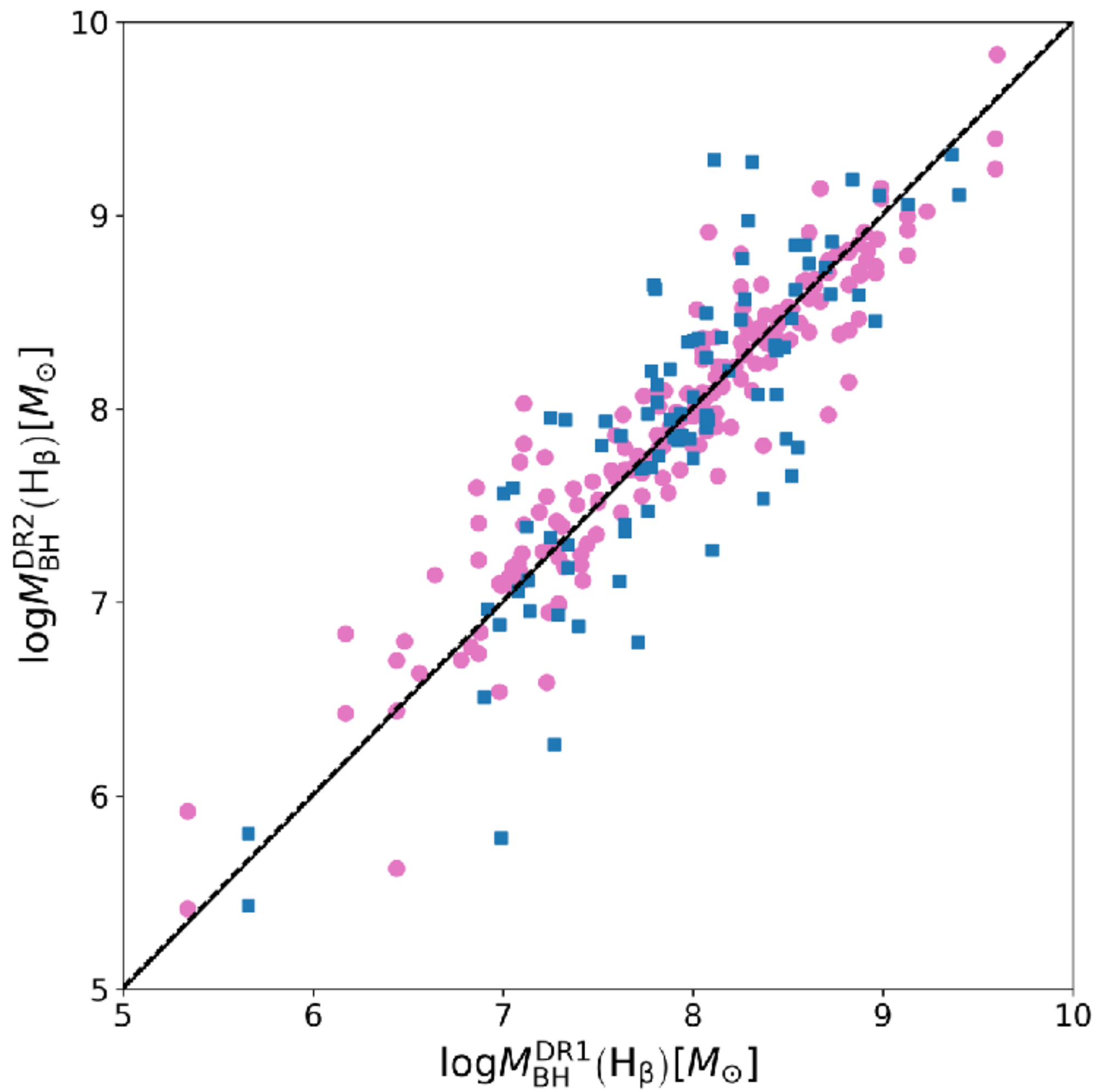
H α

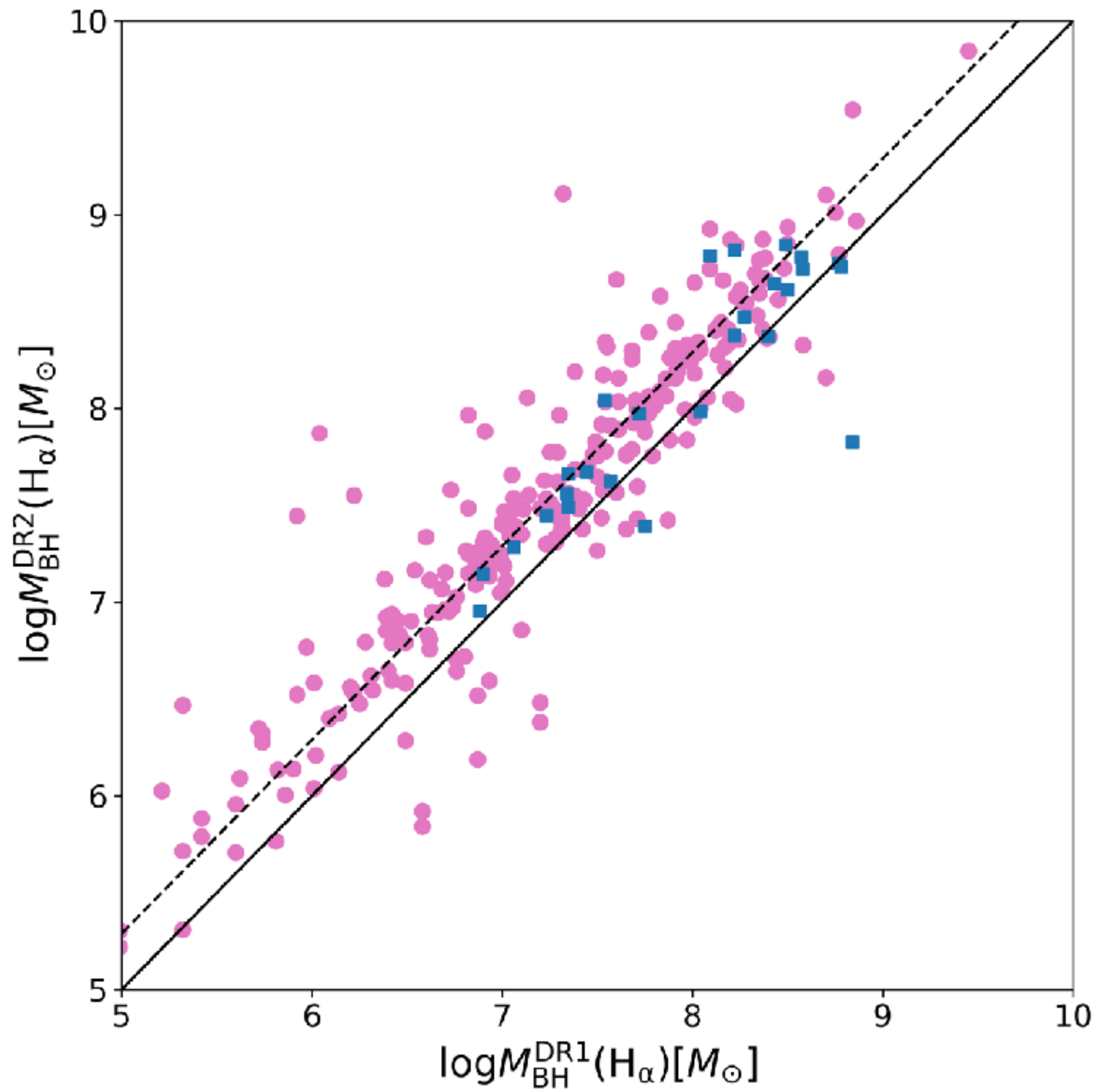


H β

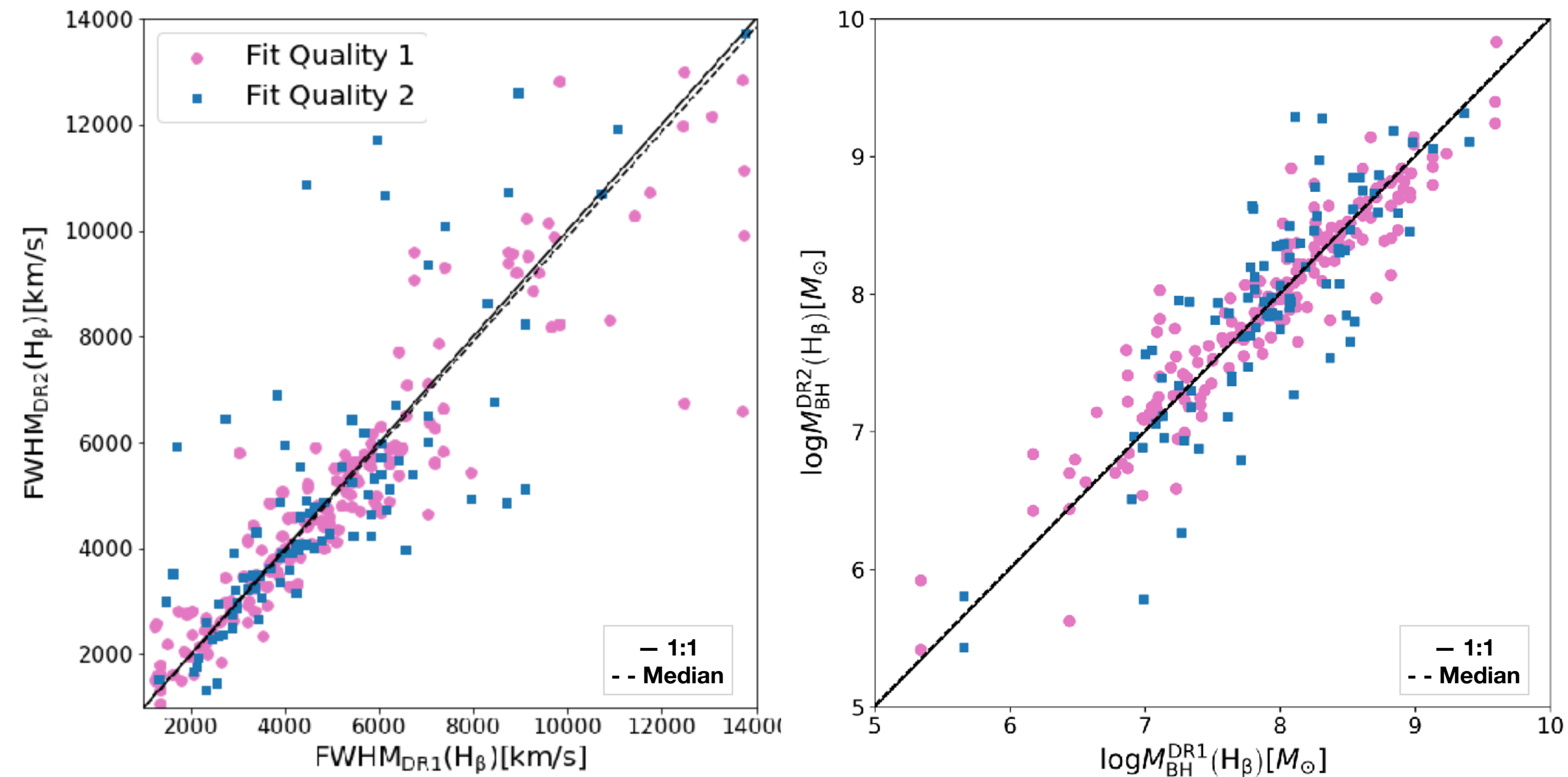


1= Good fit, 2=Acceptable fit, 3=Bad fit



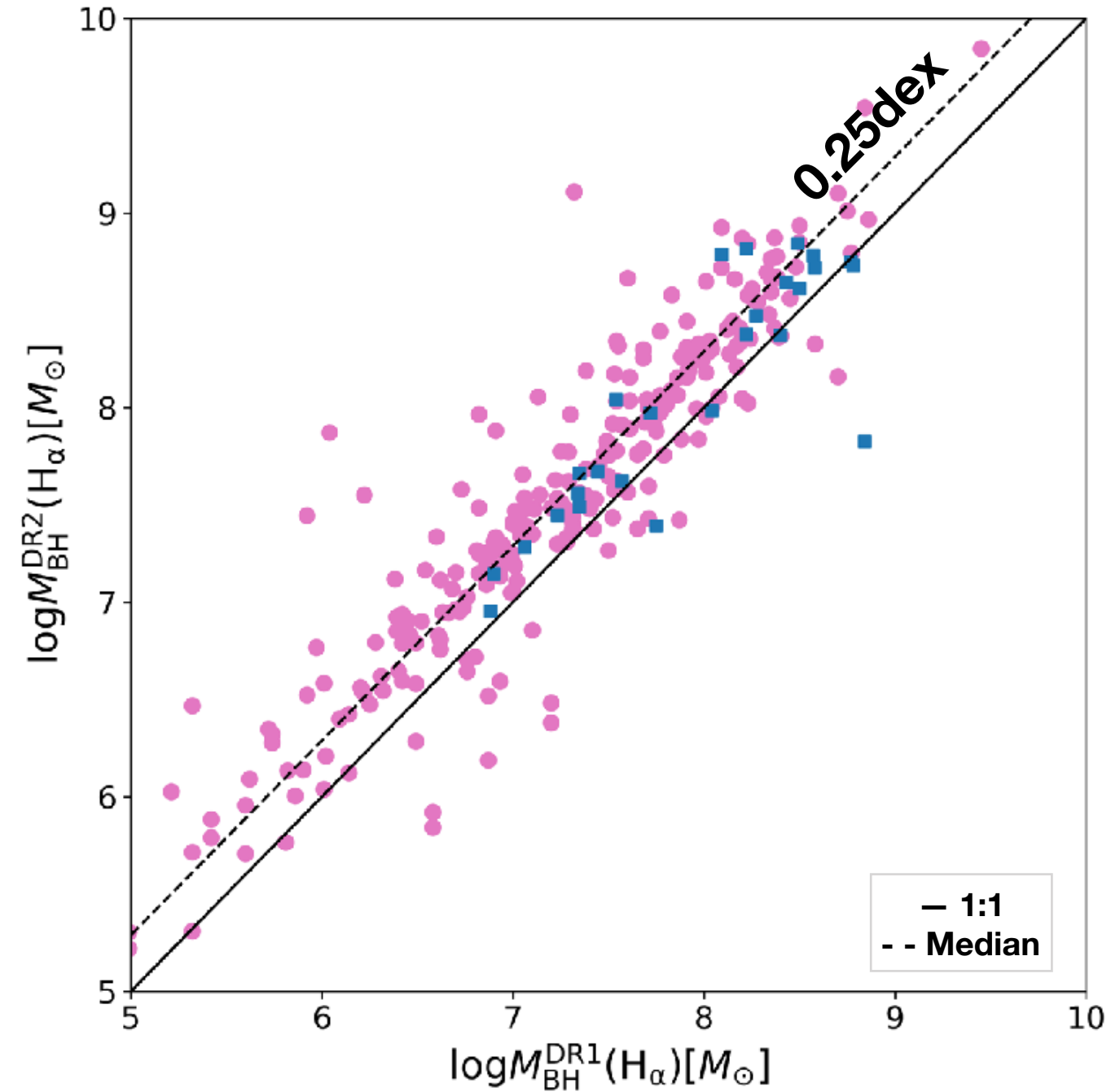
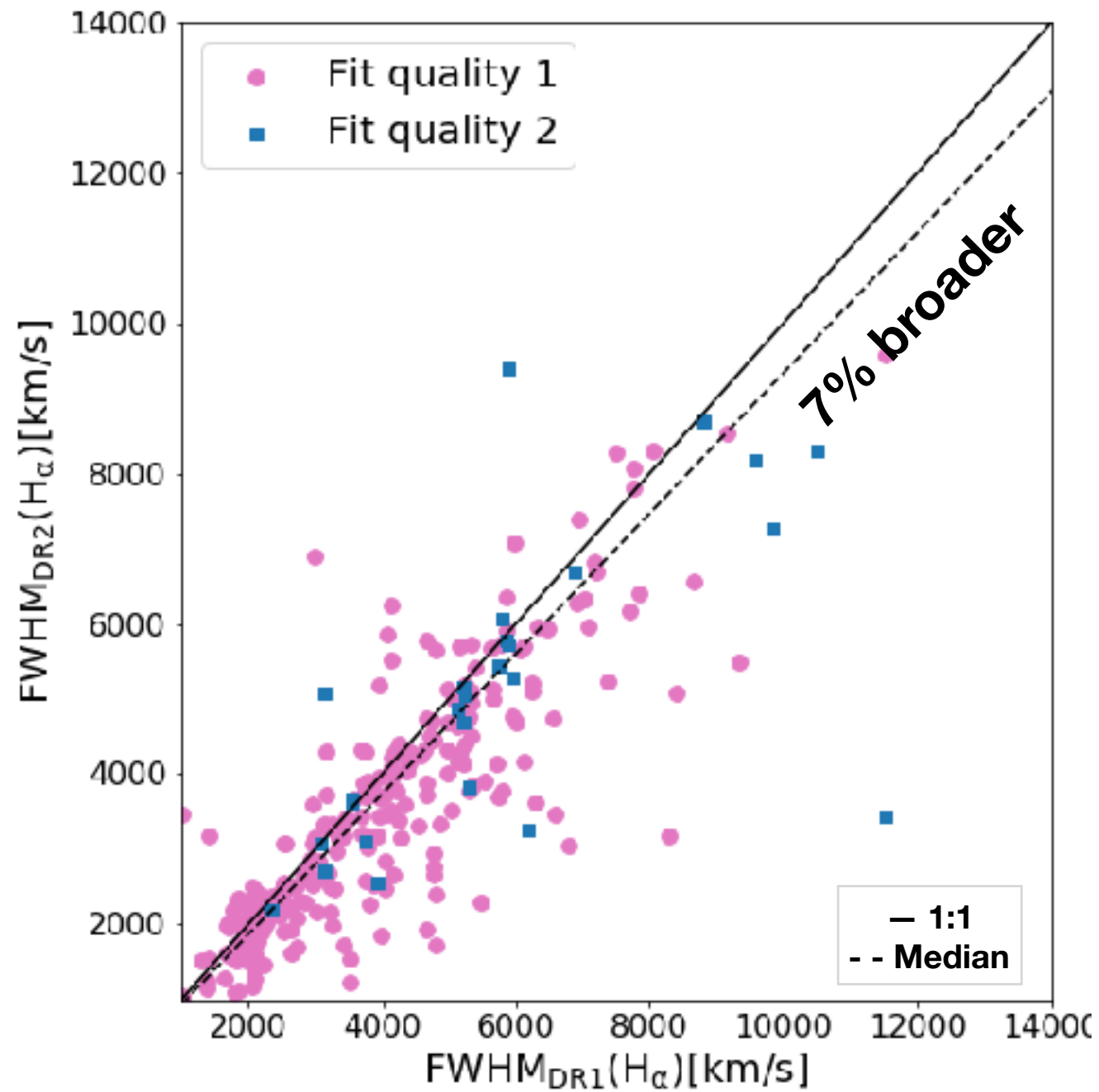


H β



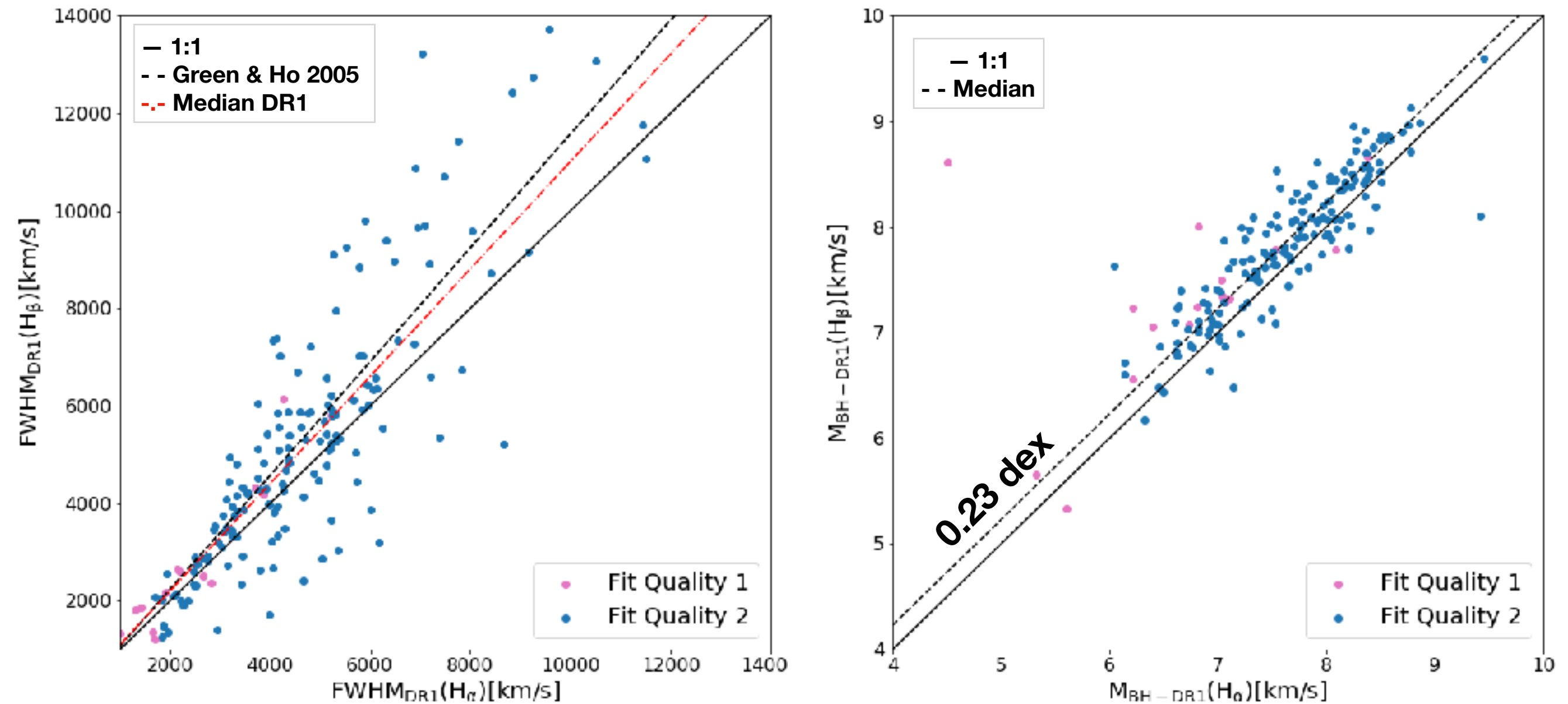
DR1 vs DR2

H α



DR1 vs DR2

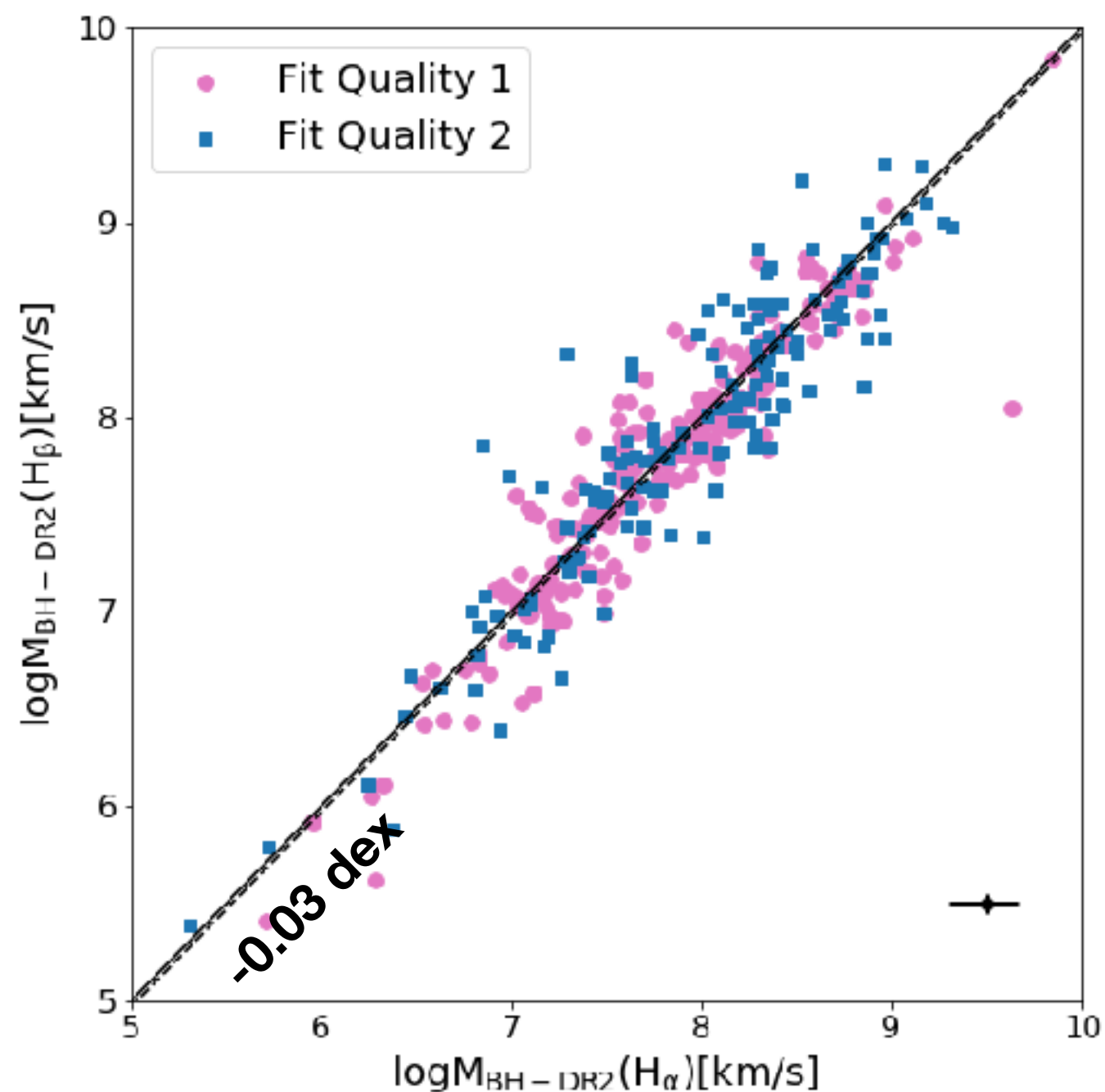
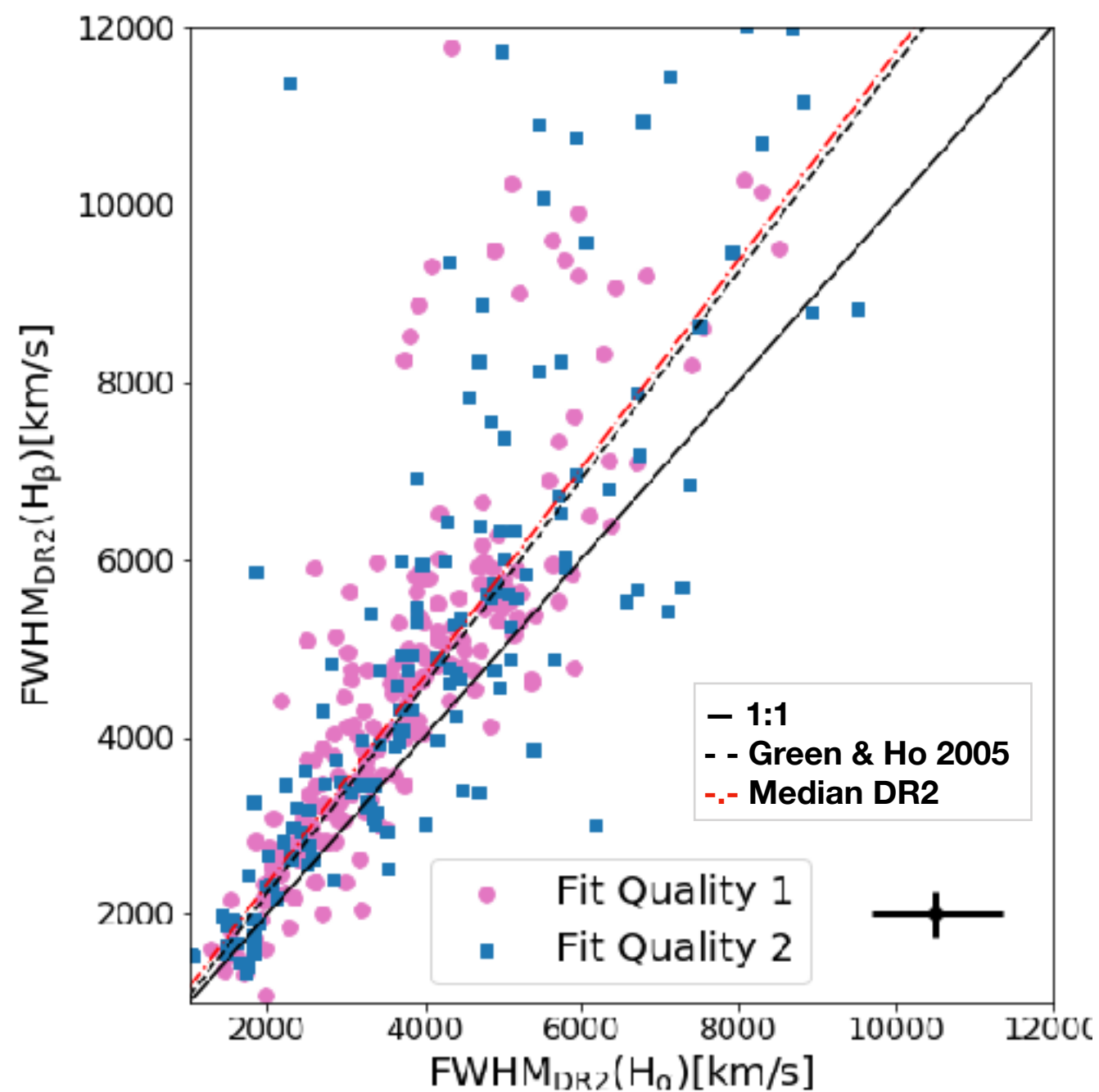
H α vs H β



DR1

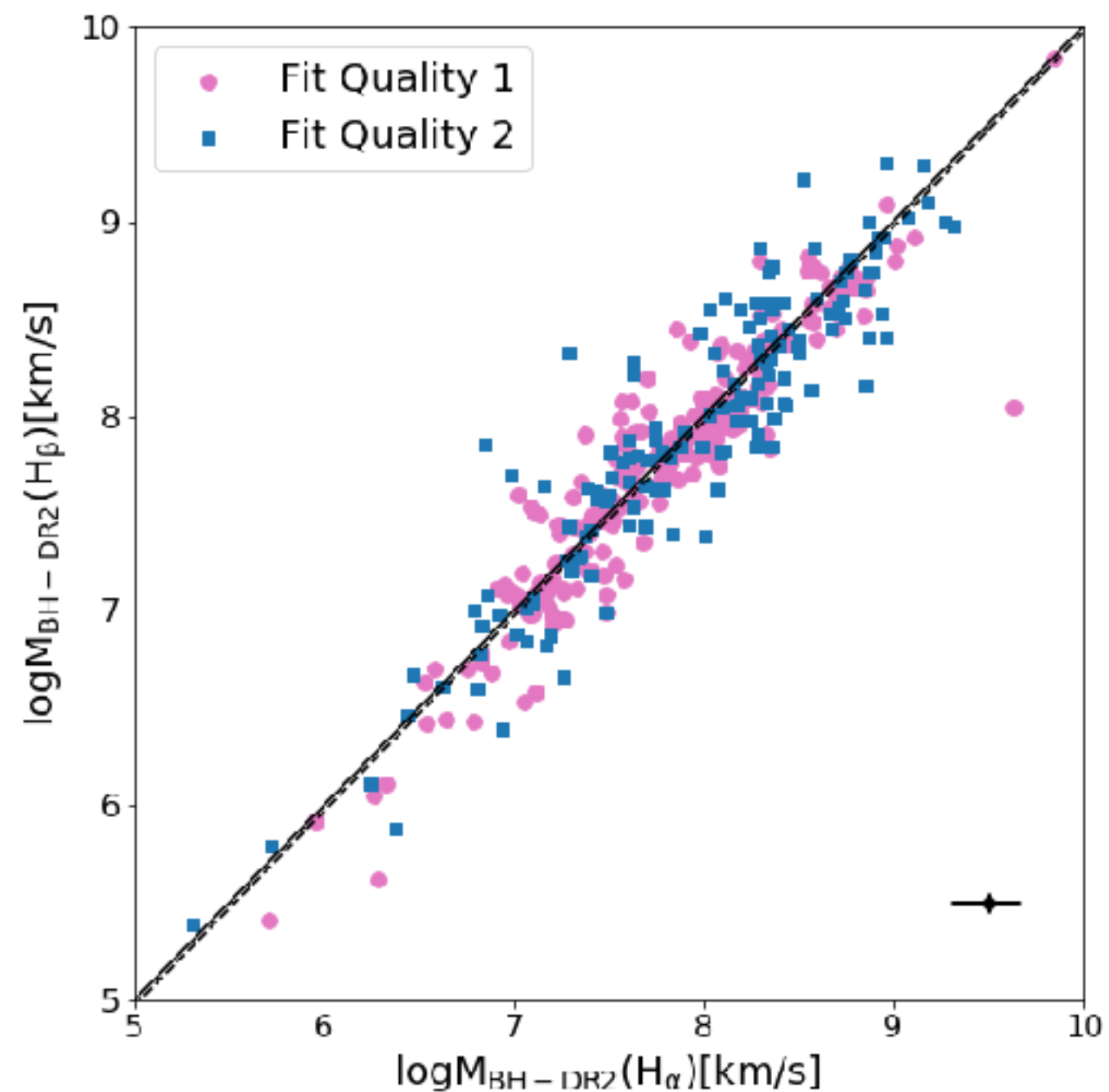
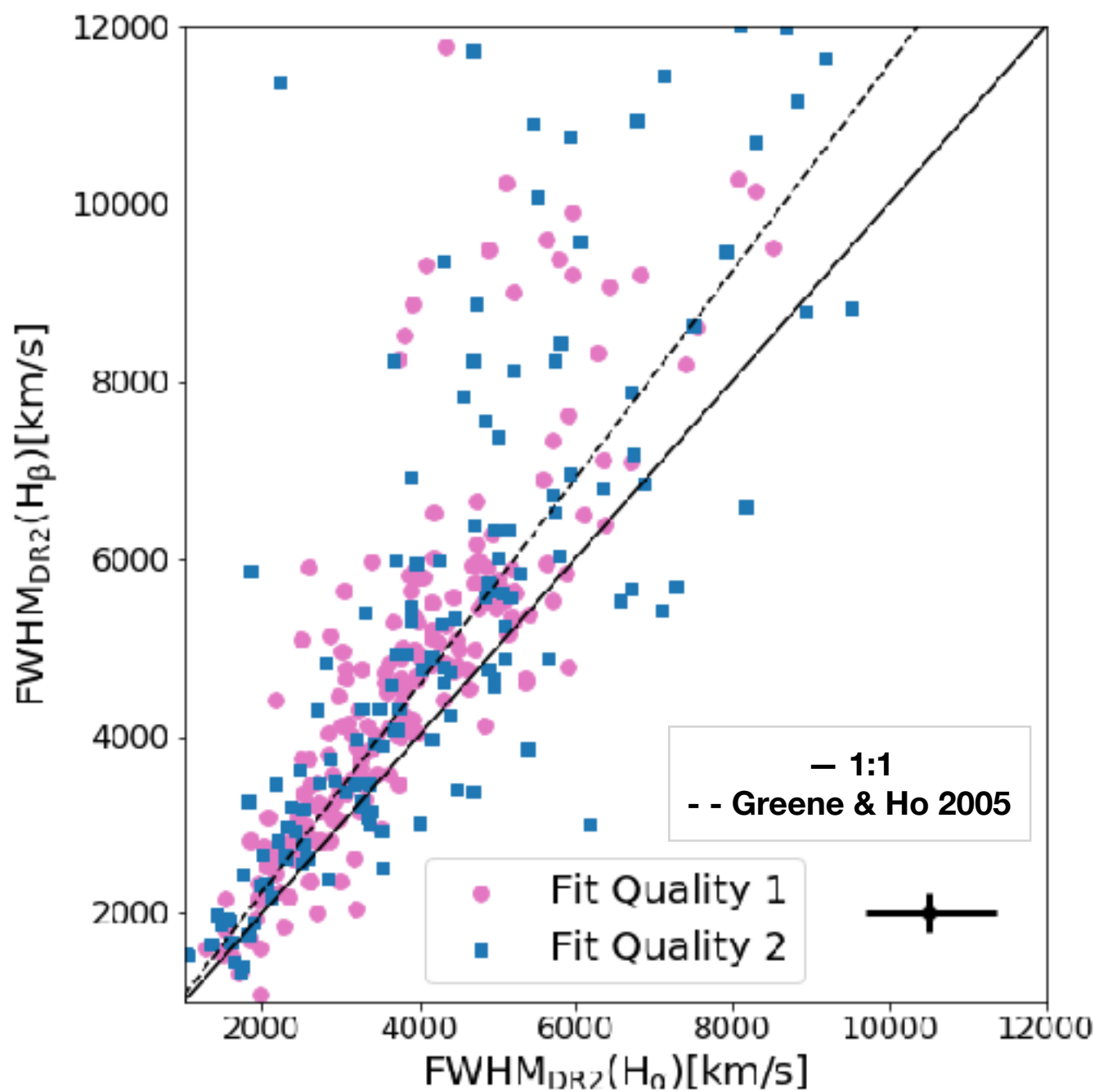
Different viral factors ($f(\text{H}\alpha)=0.75$, $f(\text{H}\beta)=1$)

H α vs H β



DR2

H α vs H β



DR2

We also knew from DR1 that for
Sy1.9

broad line M_{BH}
are **smaller** than
Stellar dispersion M_{BH}

What is going on?

$$r_s = -0.36 \quad P_s = 7.2e-15$$

