

Comparison of vestibular input statistics during natural activities and while piloting an aircraft

Running title: Vestibular inputs in natural activities and while piloting

Authors: Roques, A.^{1,2,3}, James, Y.³, Bargiotas, I.¹, Keriven Serpollet D.¹, Vayatis, N.¹, Vidal, P.-P.^{4,1*}

¹Centre Borelli, CNRS, SSA, INSERM, Université Paris Saclay, ENS Paris Saclay, Université Paris Cité, 75006 Paris, France

²Laboratoire GBCM, EA7528, CNAM, Hesam Université, 75003 Paris, France

³Thales AVS, 95520 Osny, France

⁴Institute of Information and Control, Hangzhou Dianzi University, Hangzhou, China

Figure 5: Gaze redirection vs. gaze stabilization

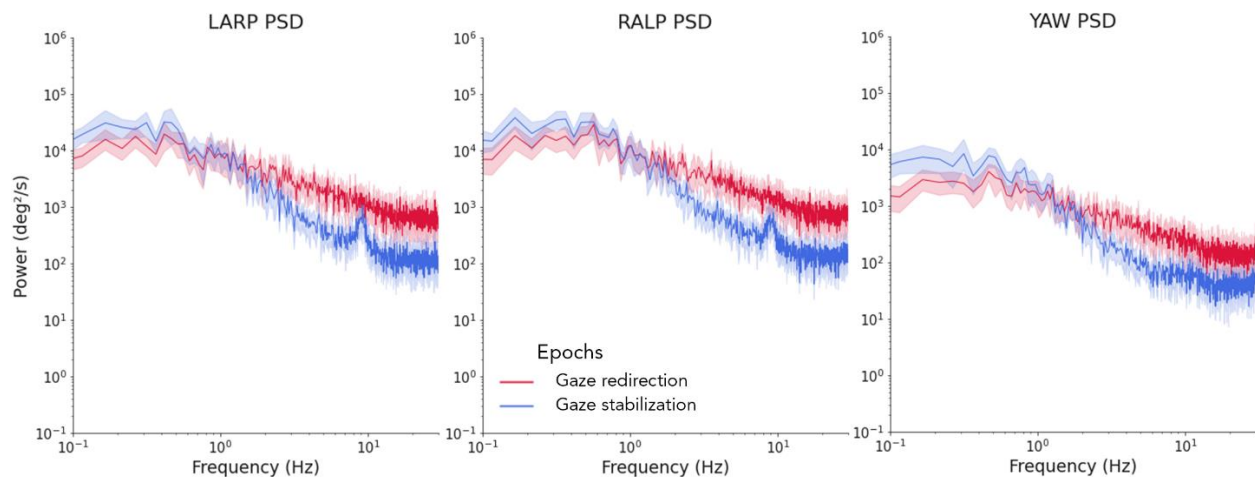


Figure 5: Population-averaged power spectra of the head-velocity signals of participants in the manual navigation task during gaze redirection (red) and gaze stabilization (blue) epochs, with corresponding 95% confidence interval (shaded areas). These spectra were computed using the Lomb-Scargle periodogram method.