

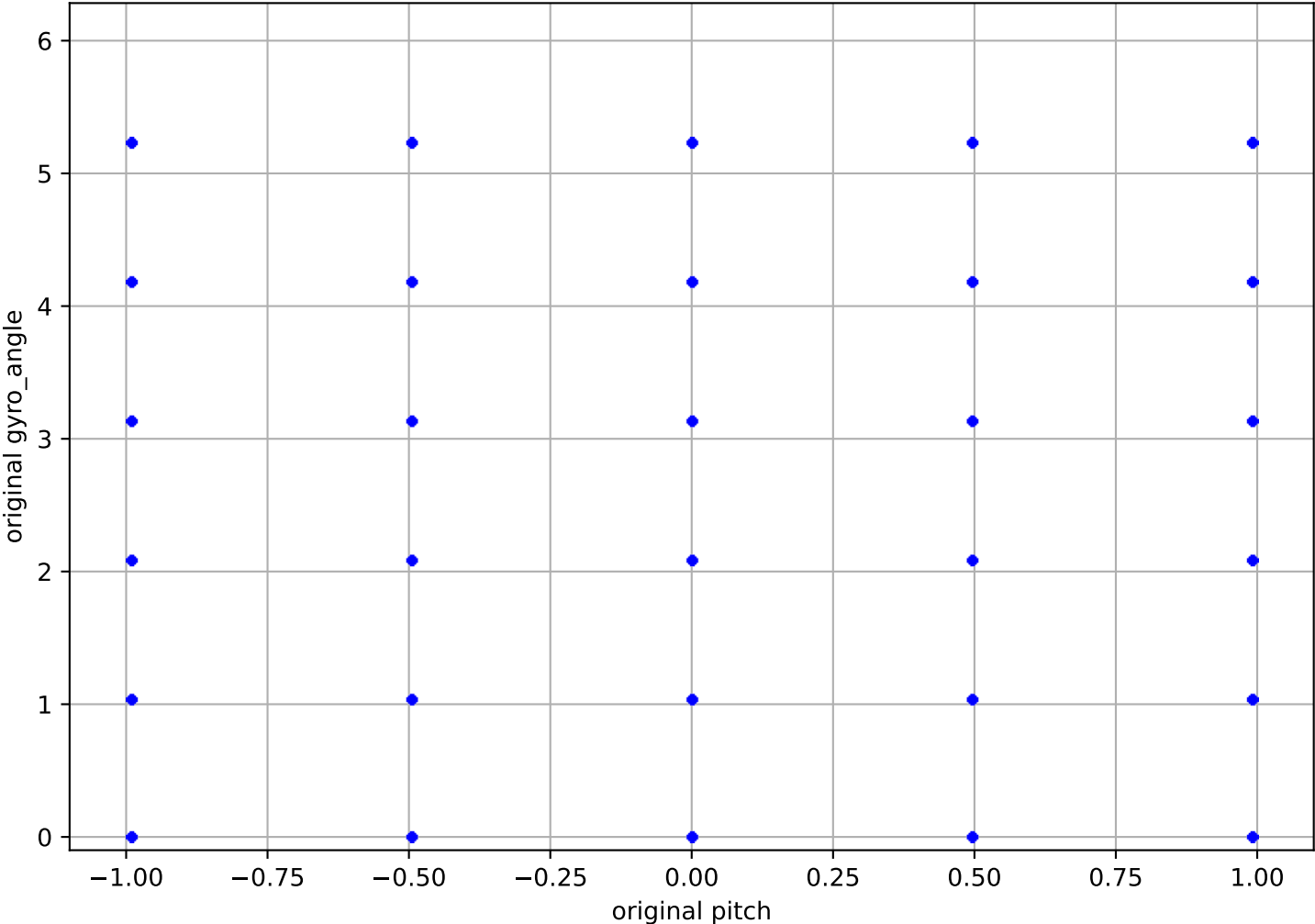
Field-line vertical angles



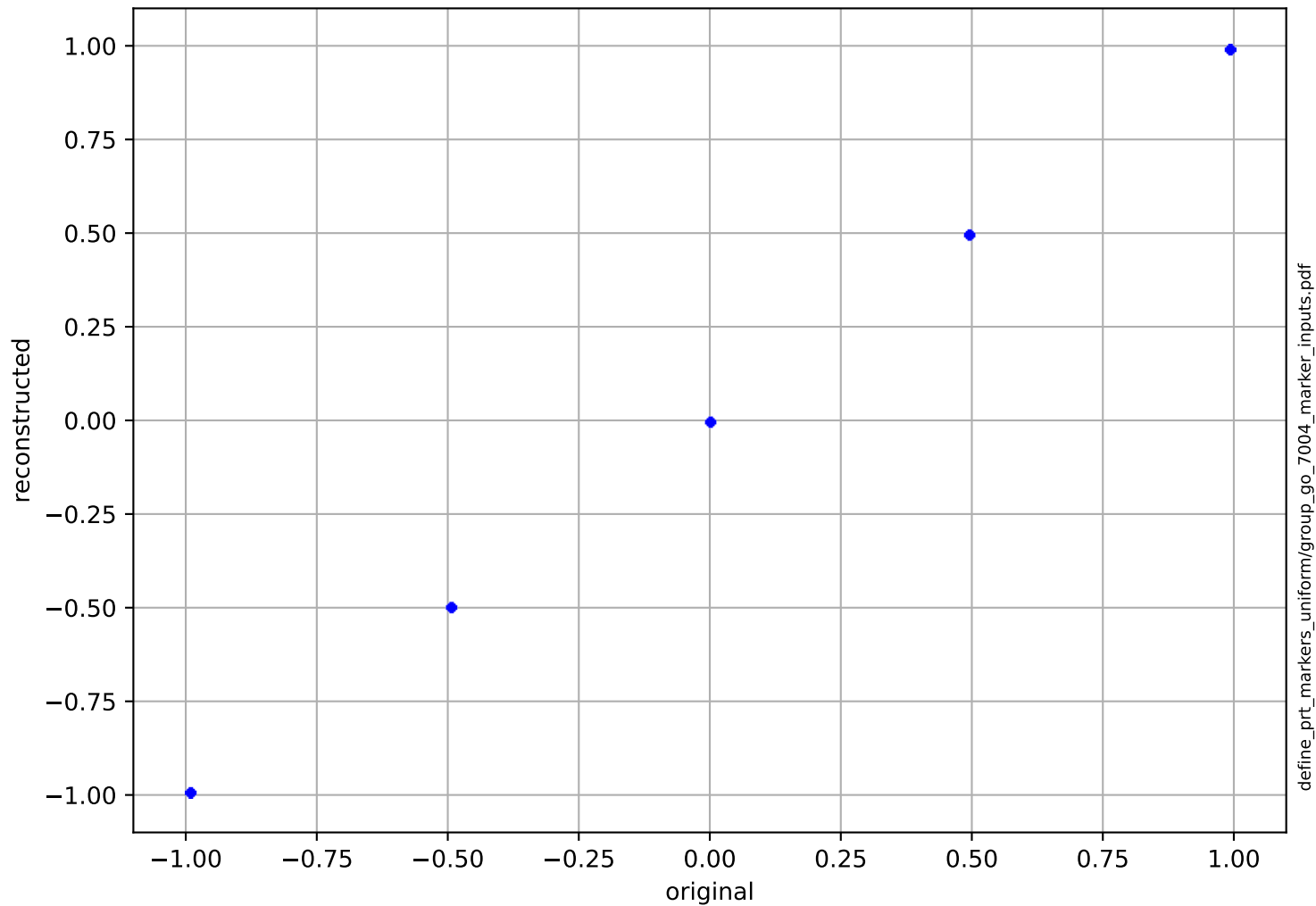
Field-line vertical angles



Original pitch and gyro_angles



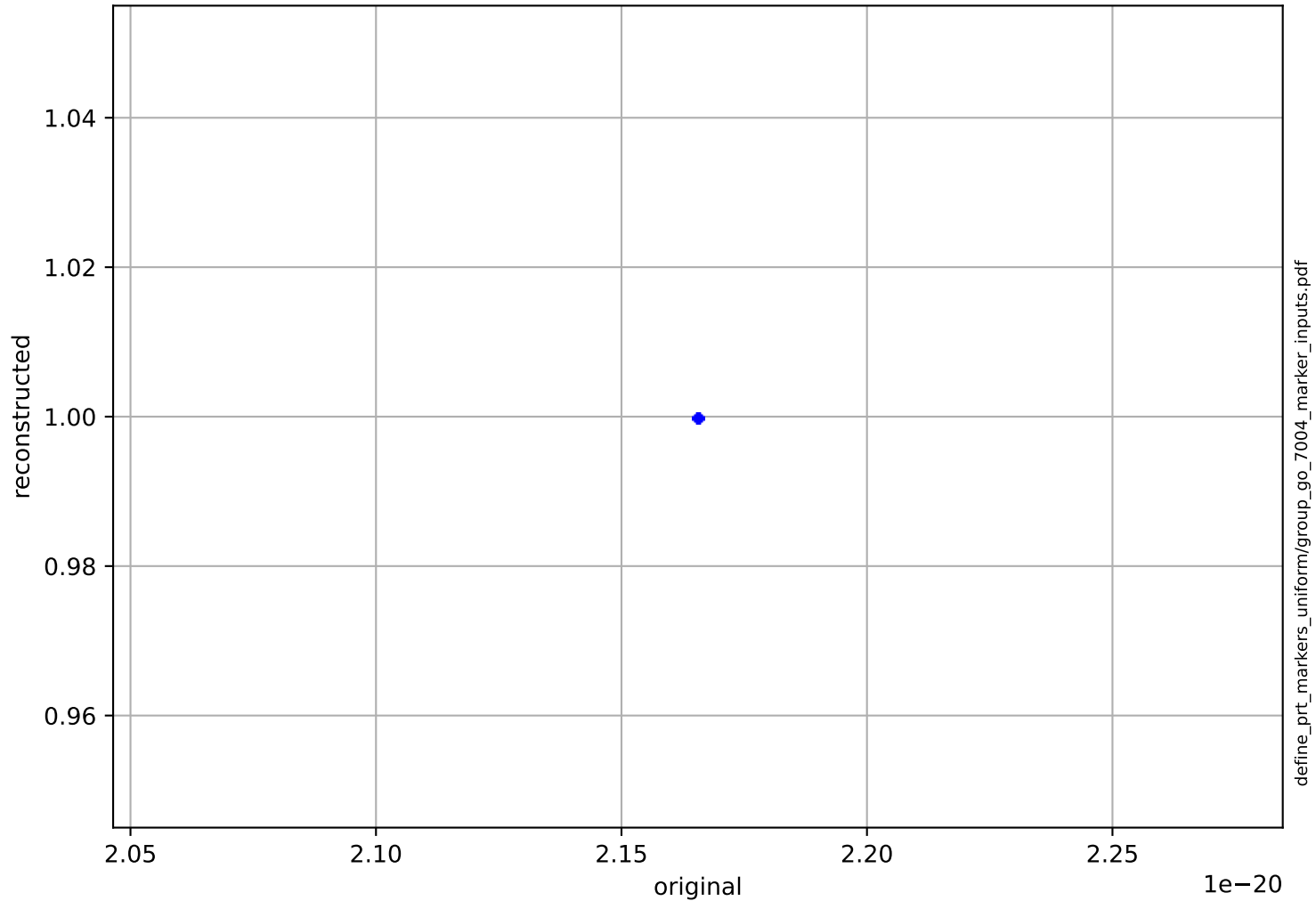
Original and reconstructed pitch



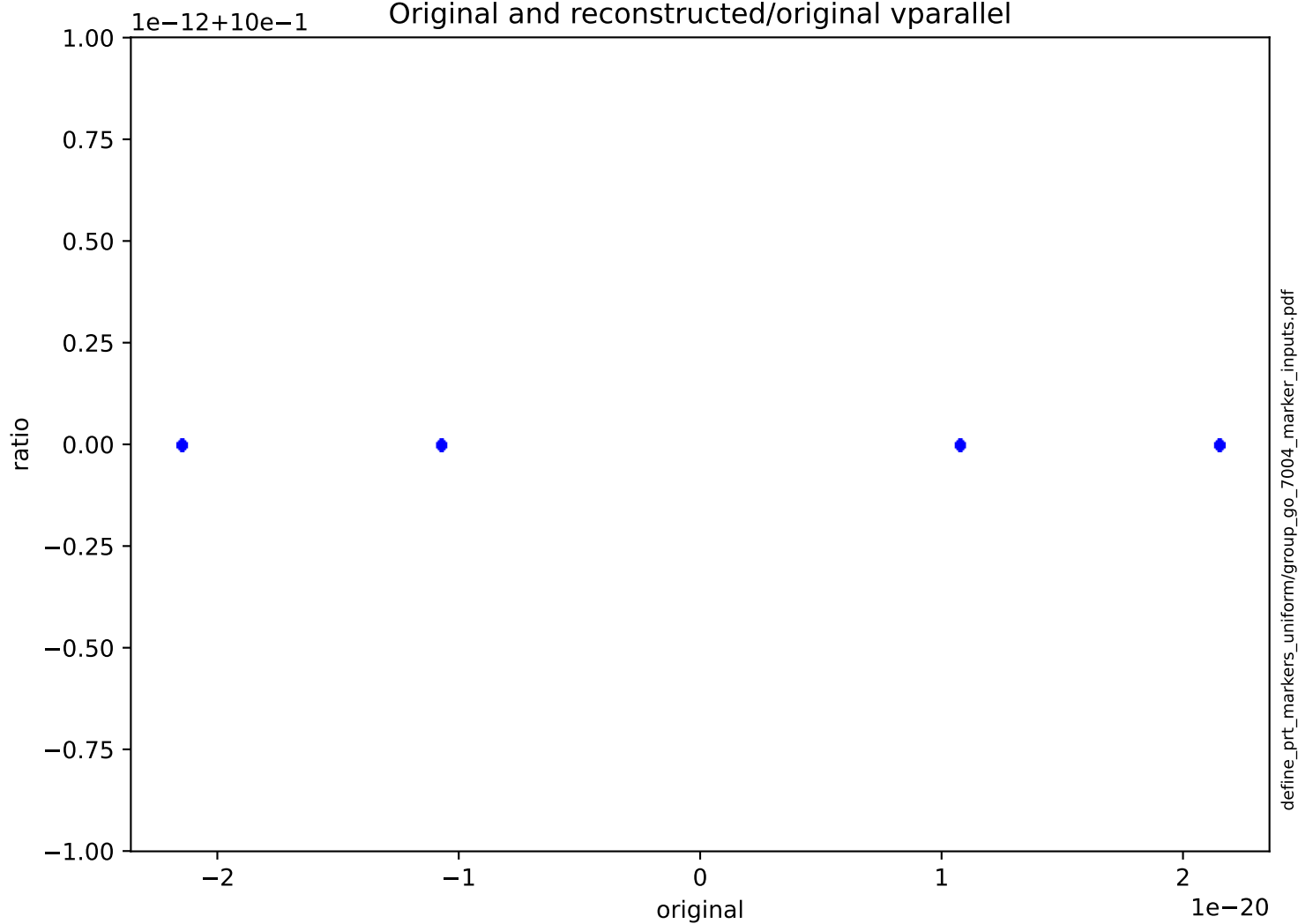
Original and reconstructed pitch (limited range)



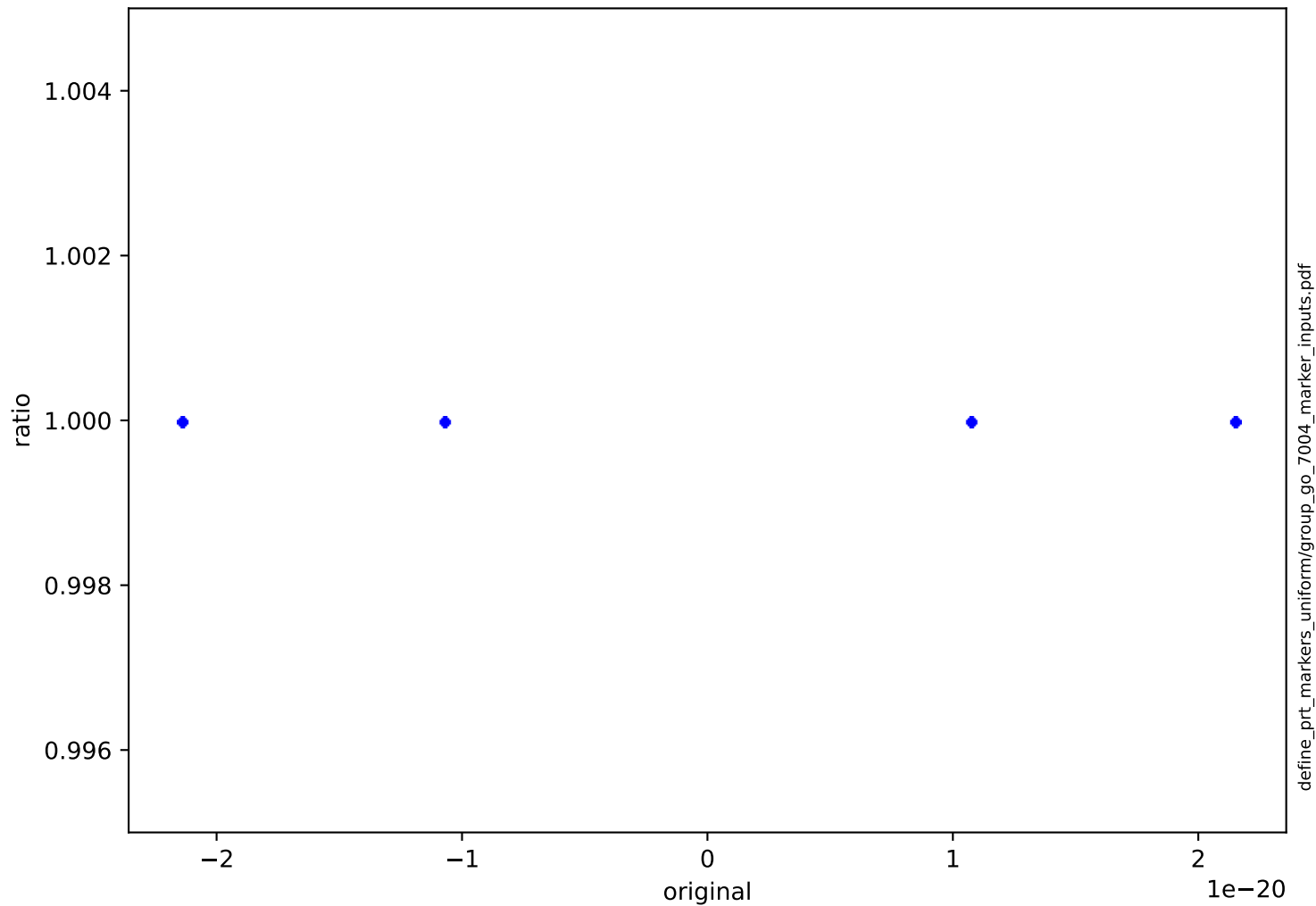
Original and reconstructed/original vtot



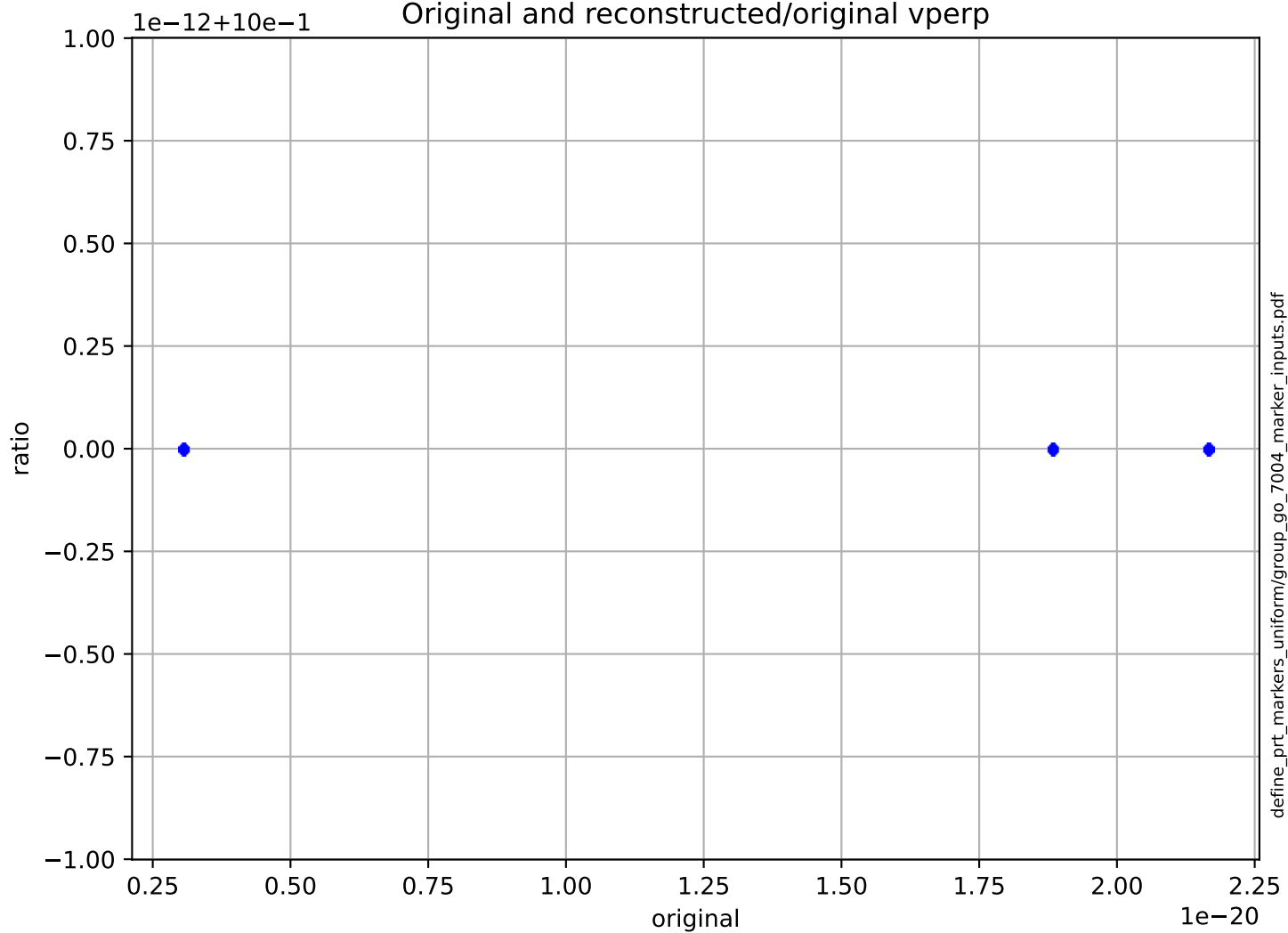
Original and reconstructed/original vparallel



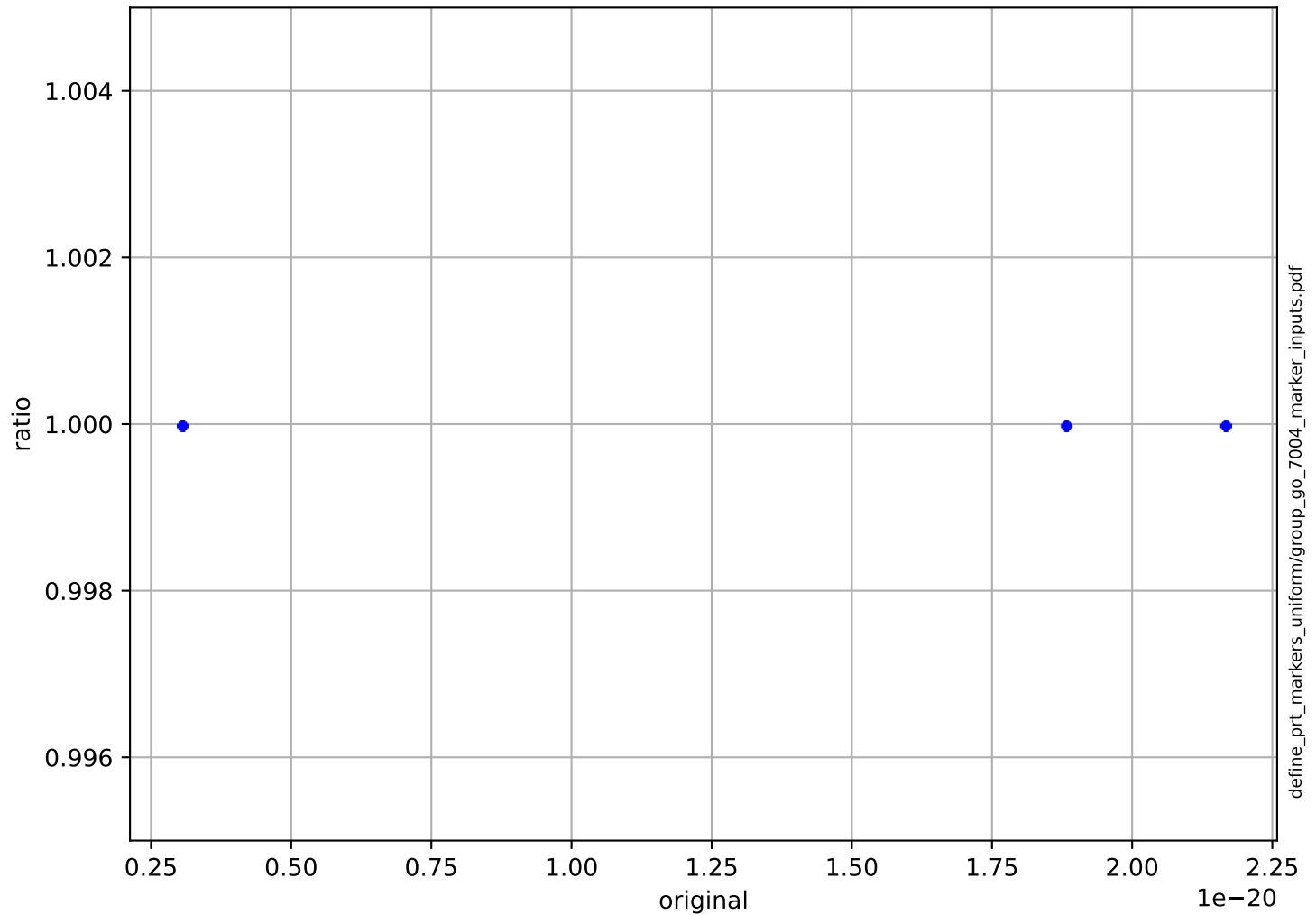
Original and reconstructed/original vparallel (limited range)



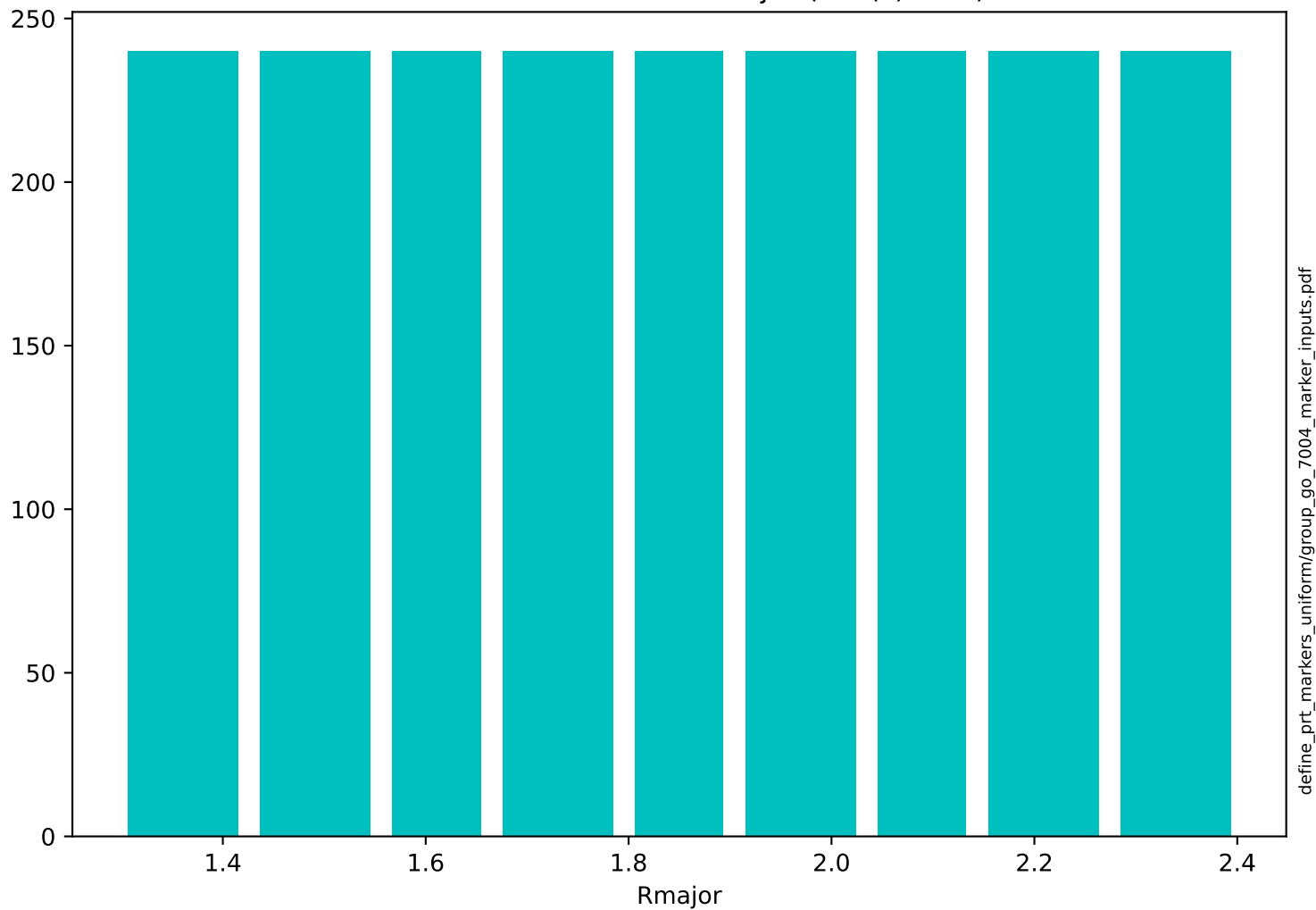
Original and reconstructed/original vperp



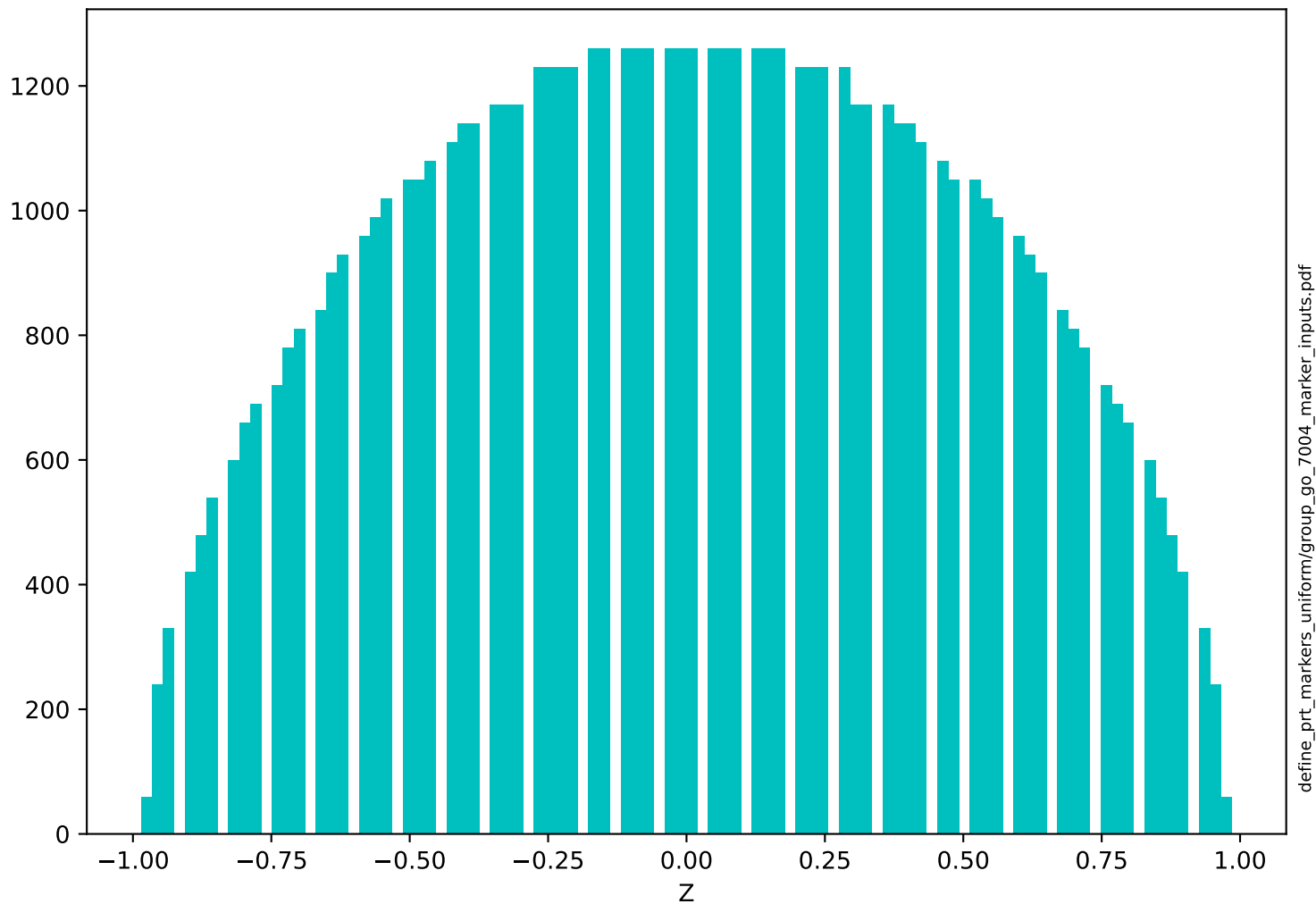
Original and reconstructed/original vperp (limited range)



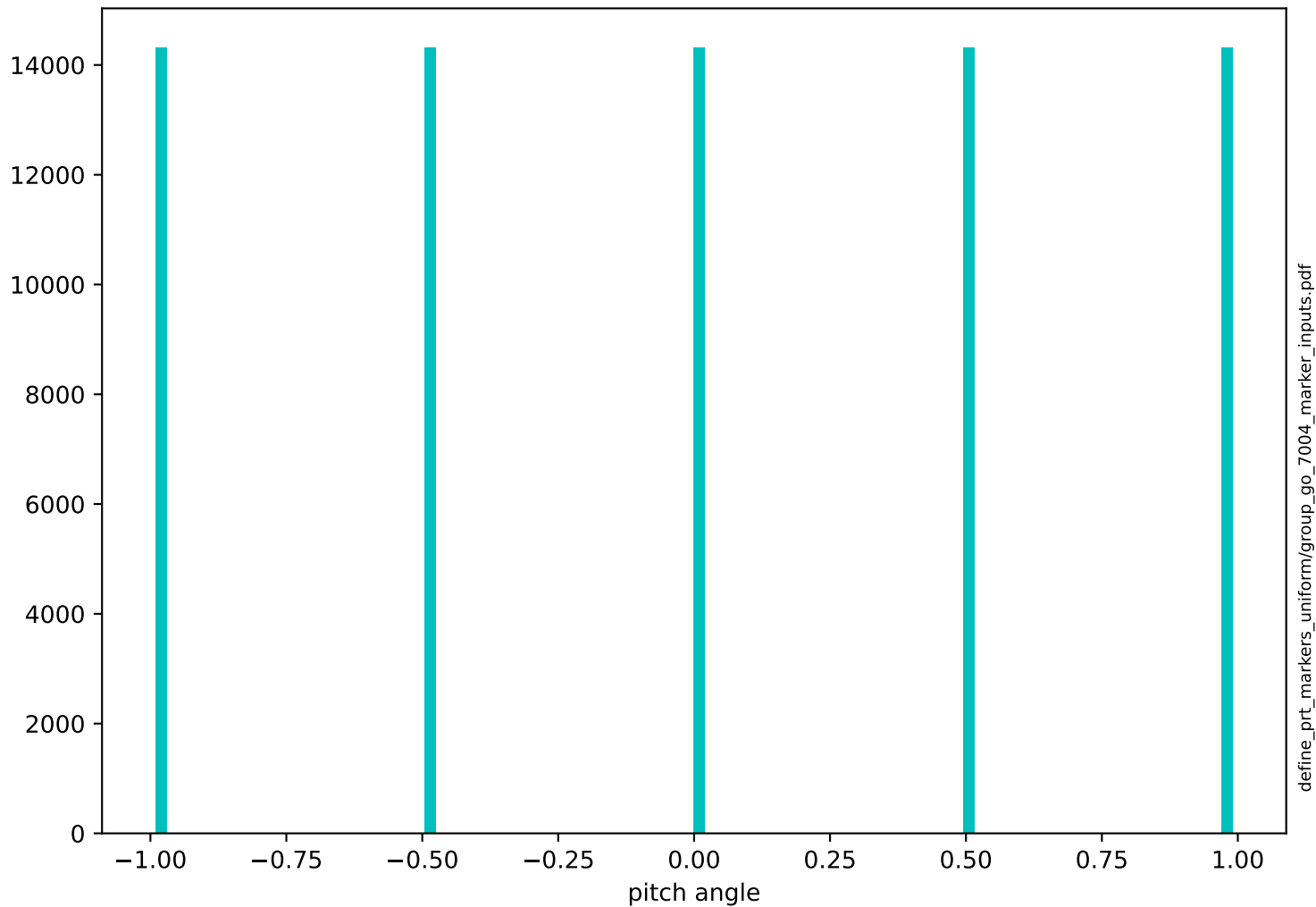
Distribution of marker Rmajor ($\text{abs}(z)<0.1$)



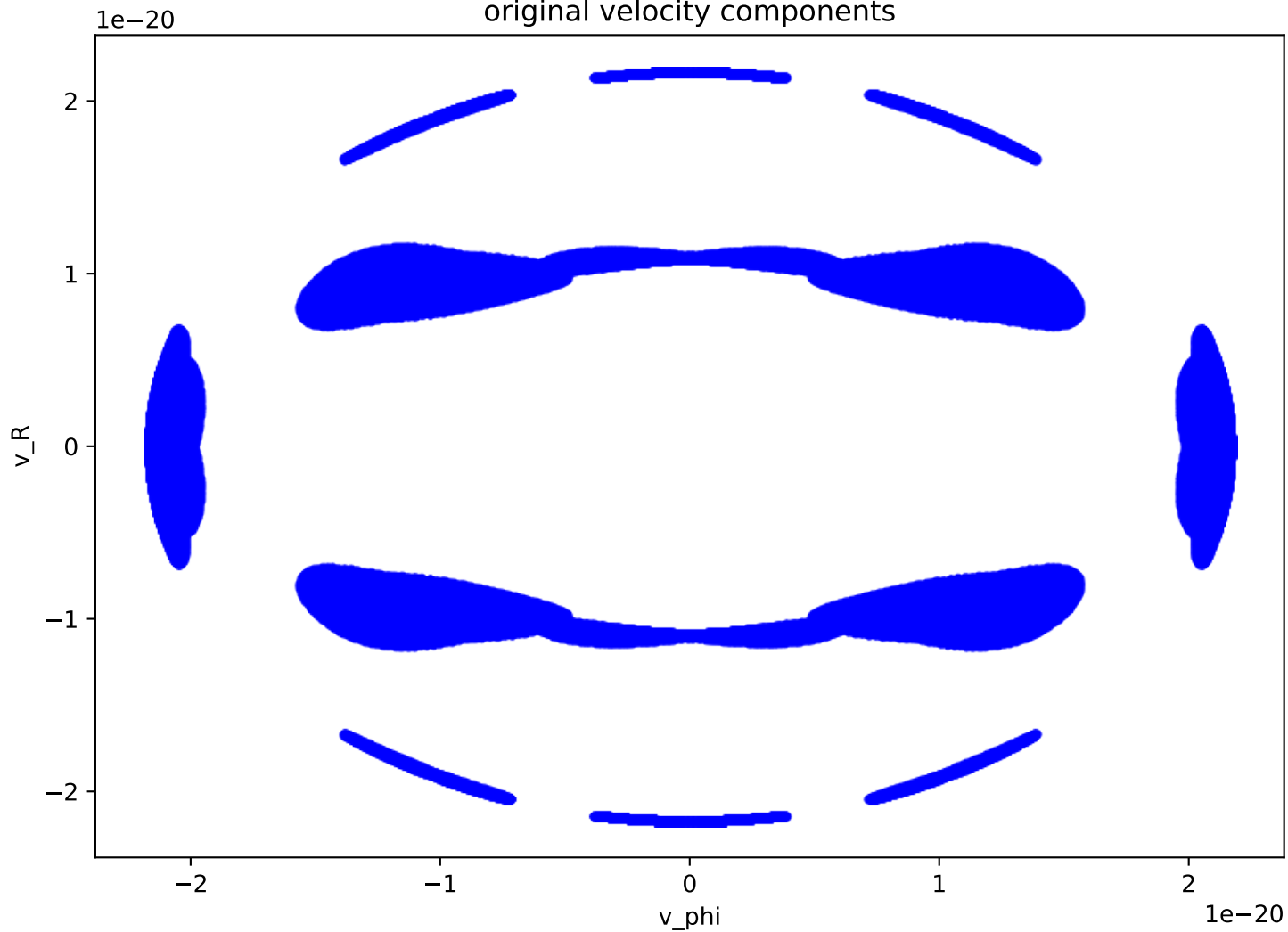
Distribution of marker Z



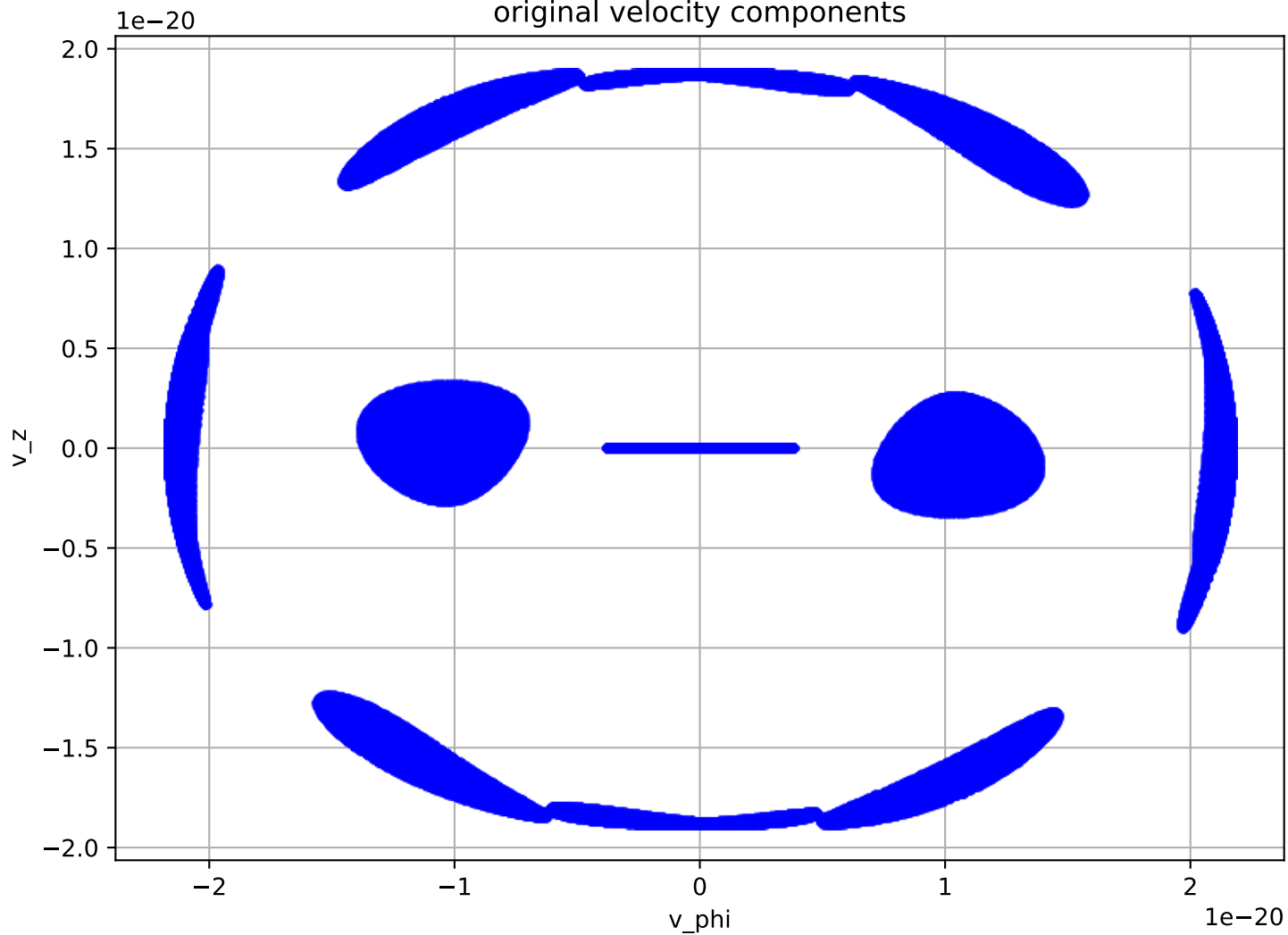
Distribution of marker pitch angles



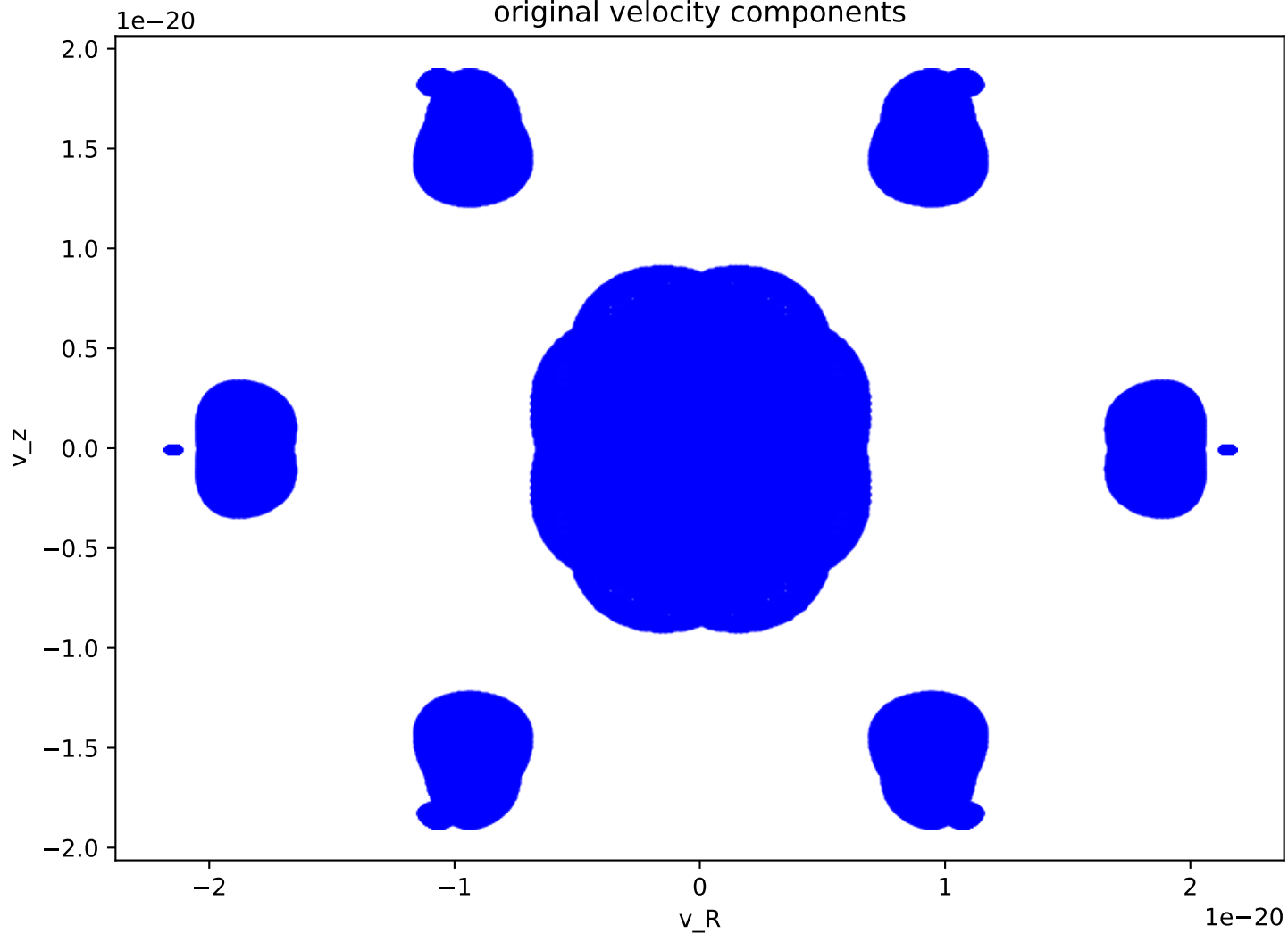
original velocity components



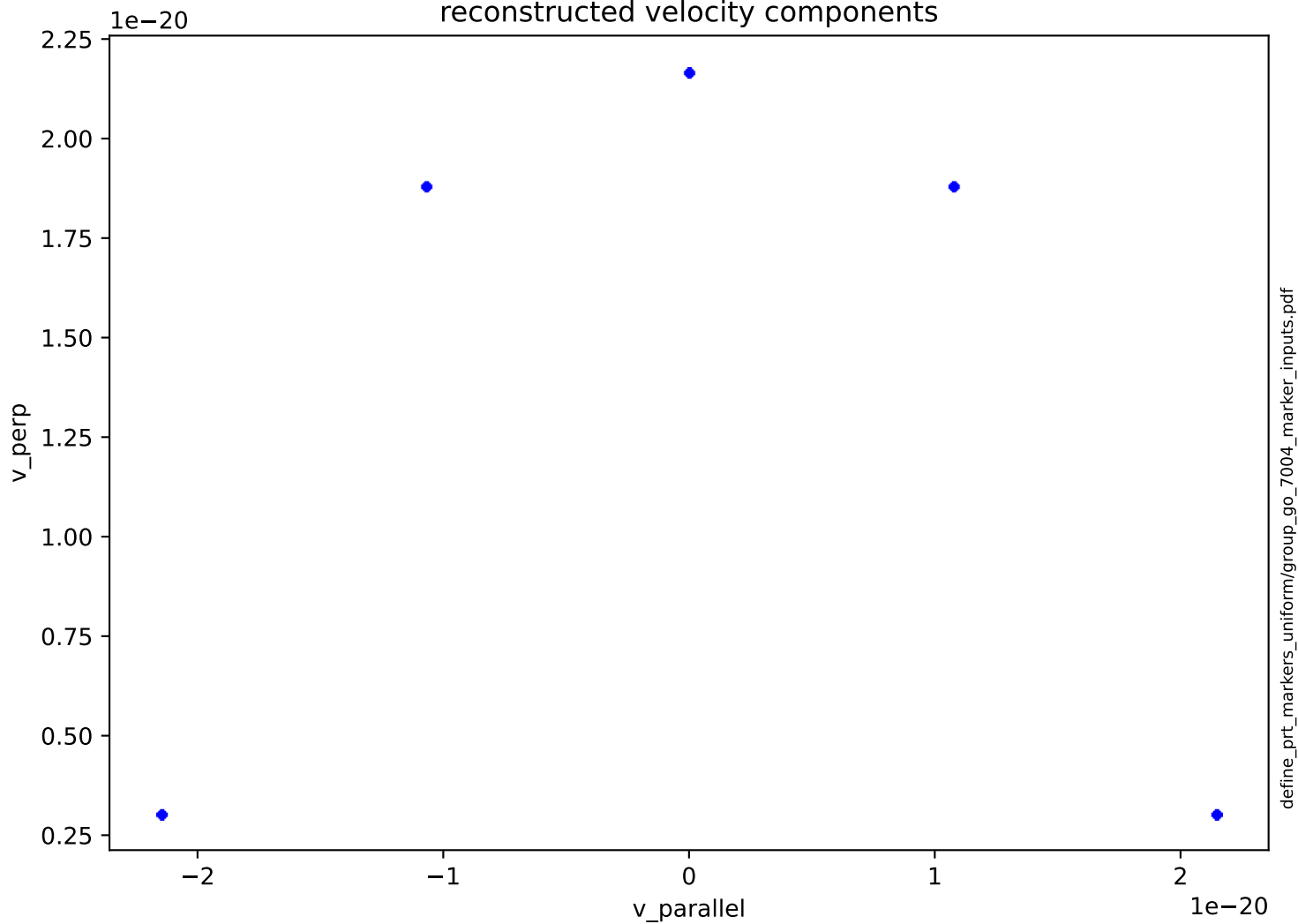
original velocity components



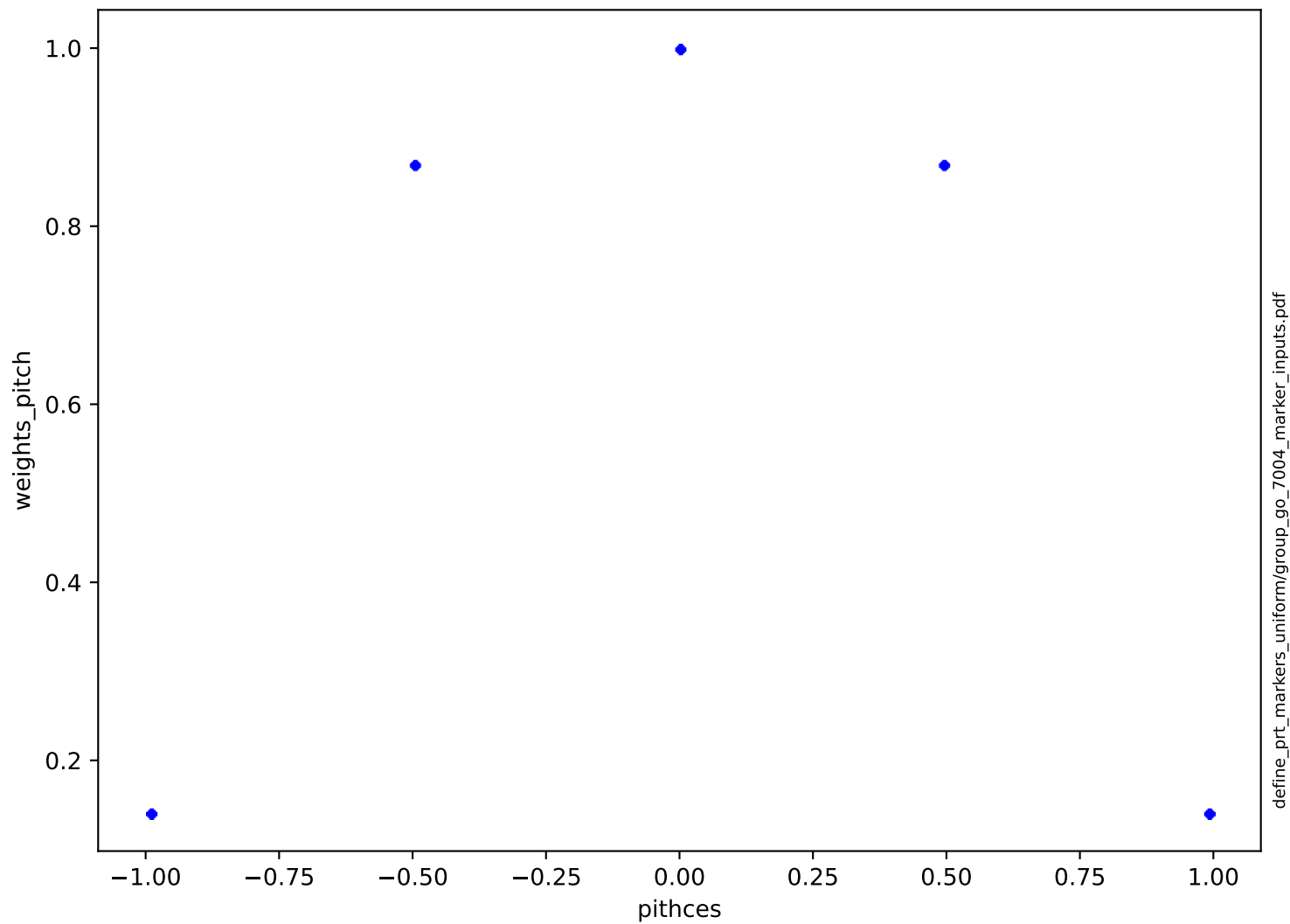
original velocity components

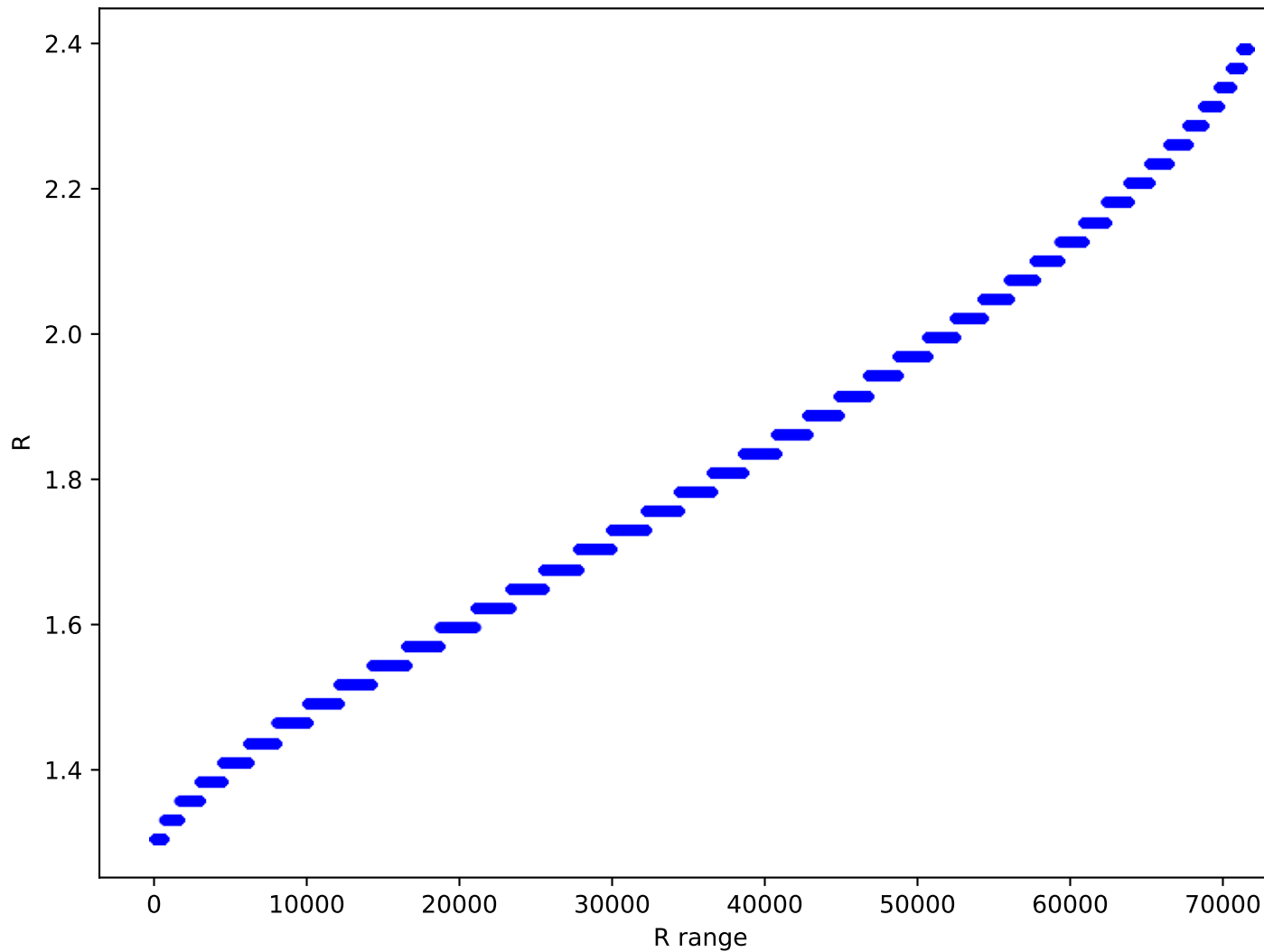


reconstructed velocity components

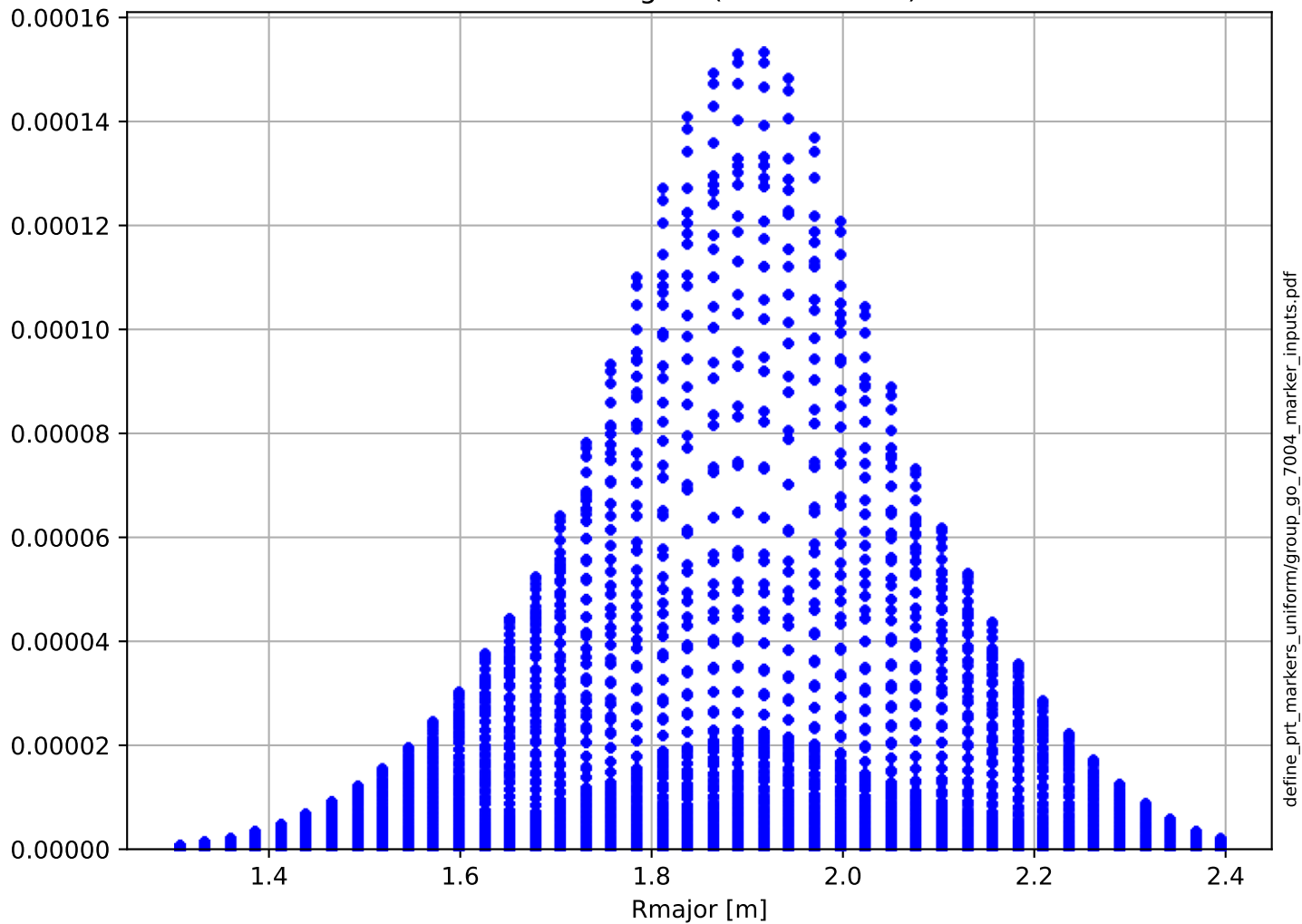




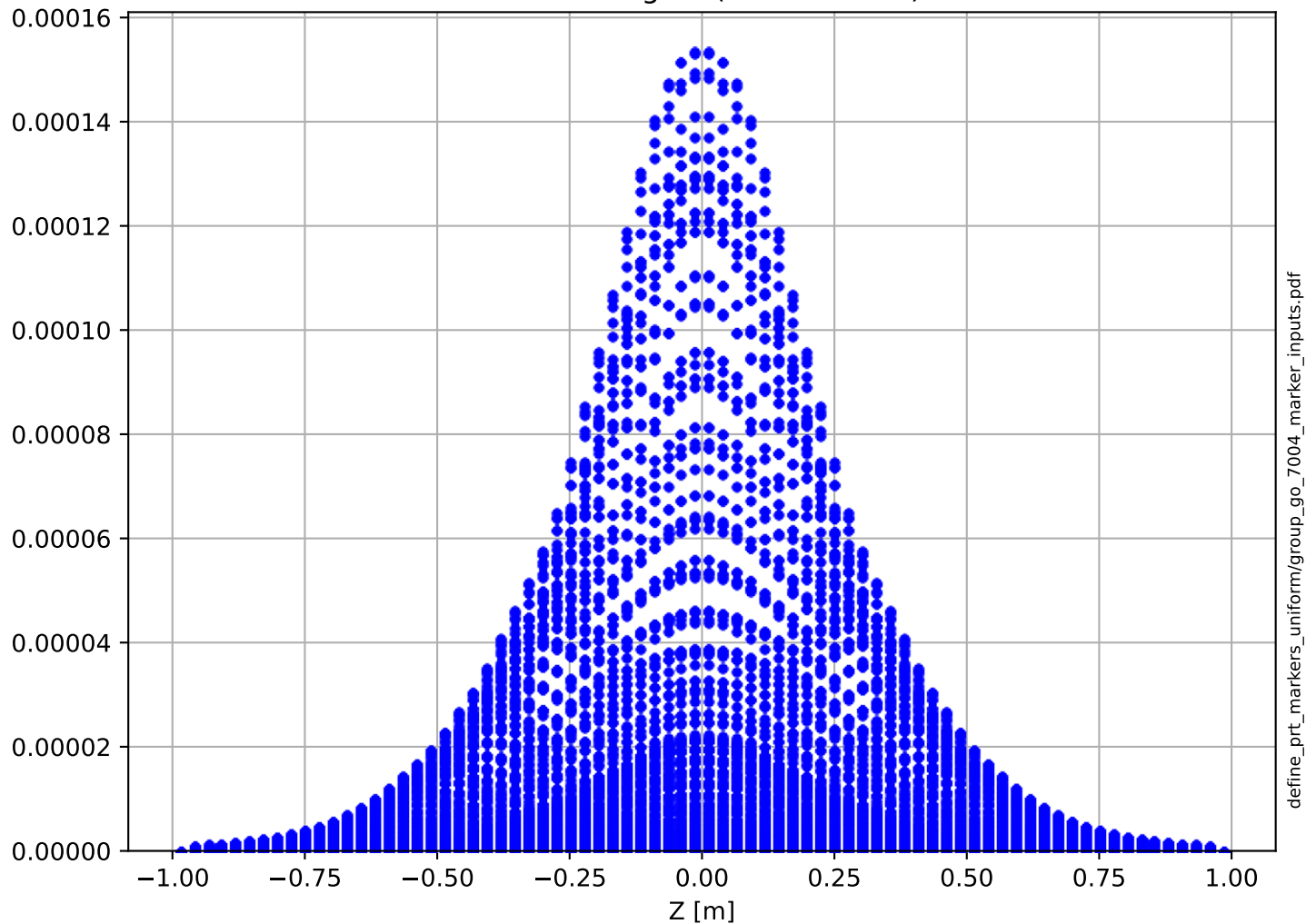




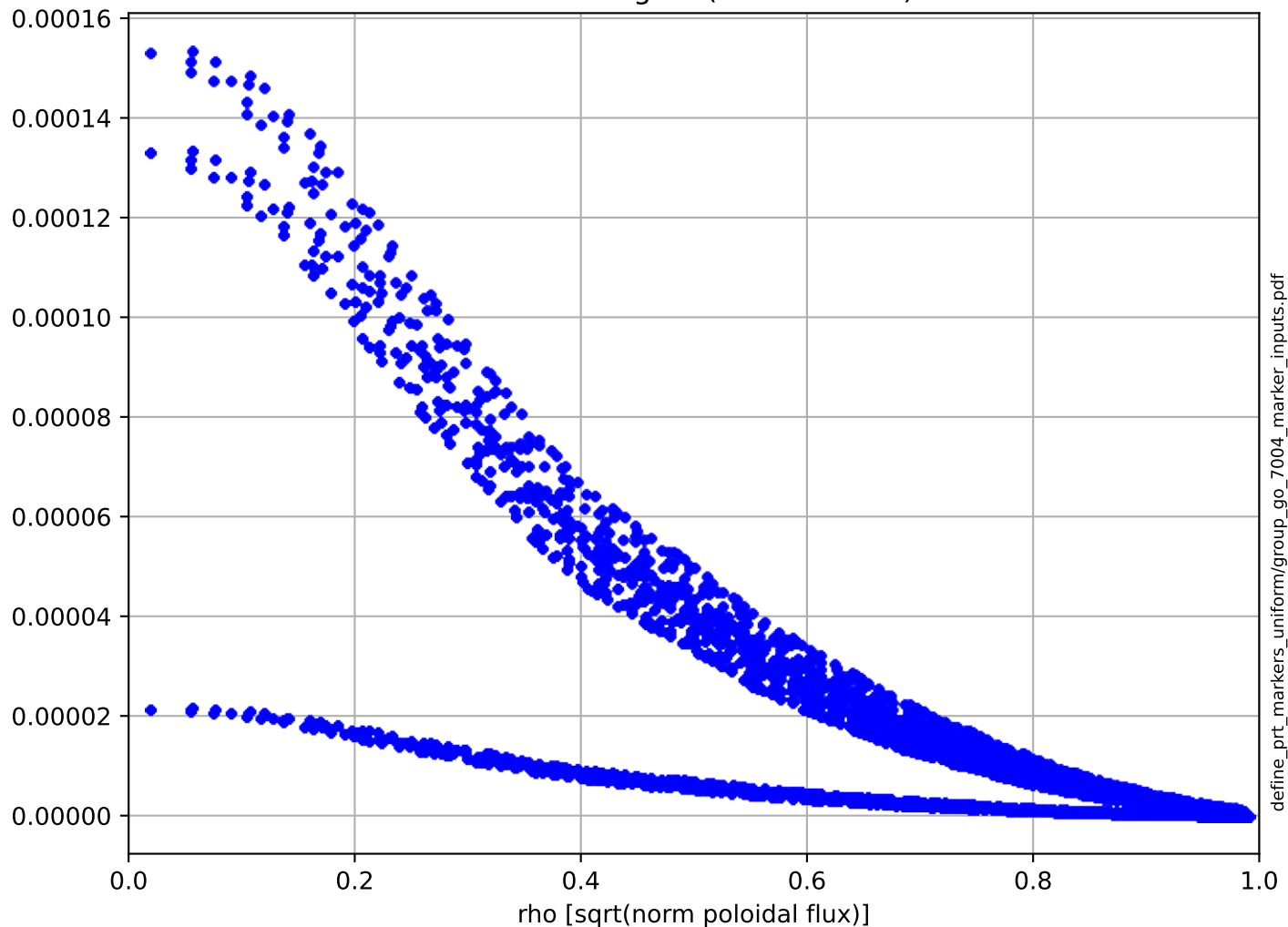
Marker weights (marker set 1)



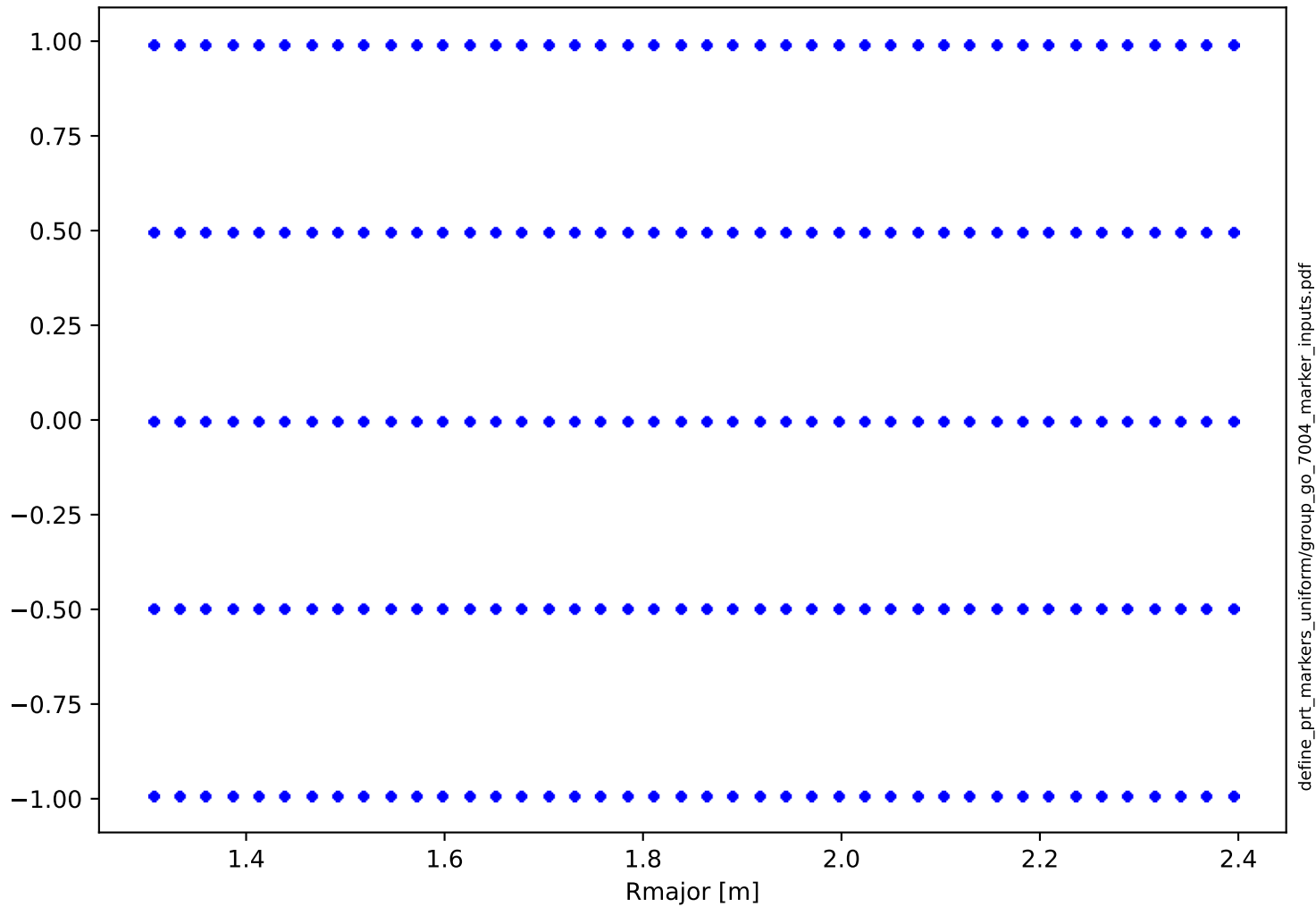
Marker weights (marker set 1)



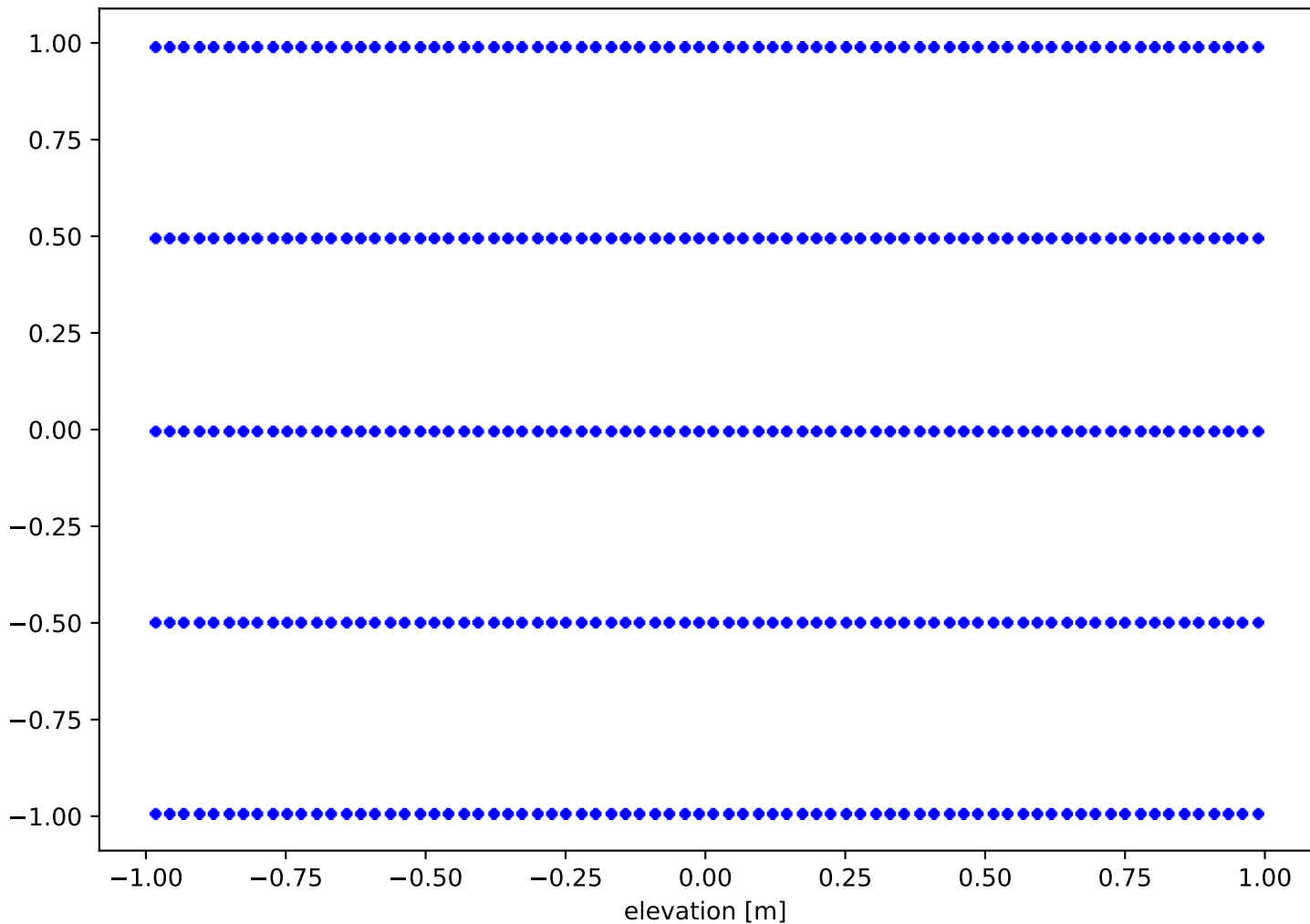
Marker weights (marker set 1)



pitch of markers

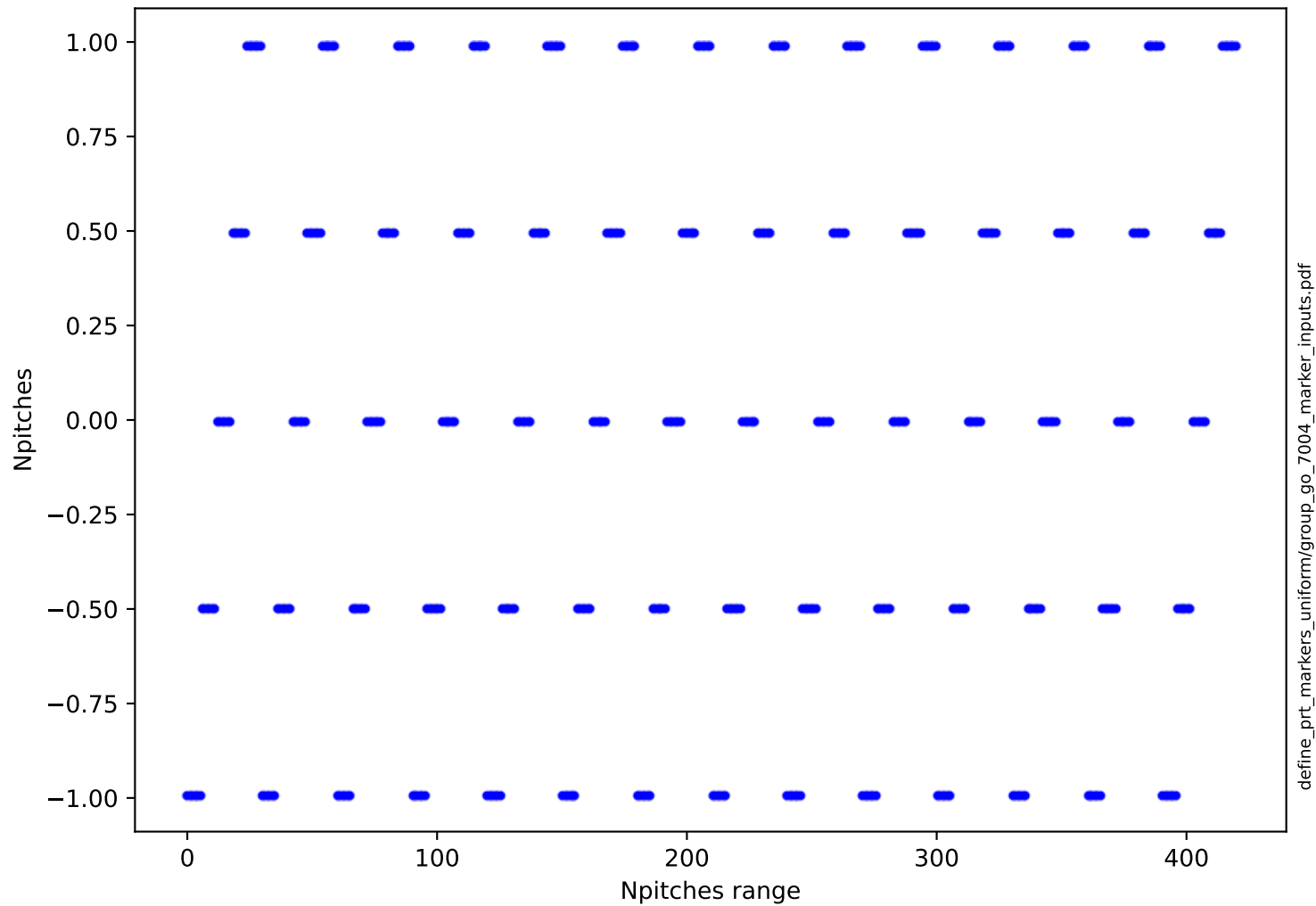


pitch of markers

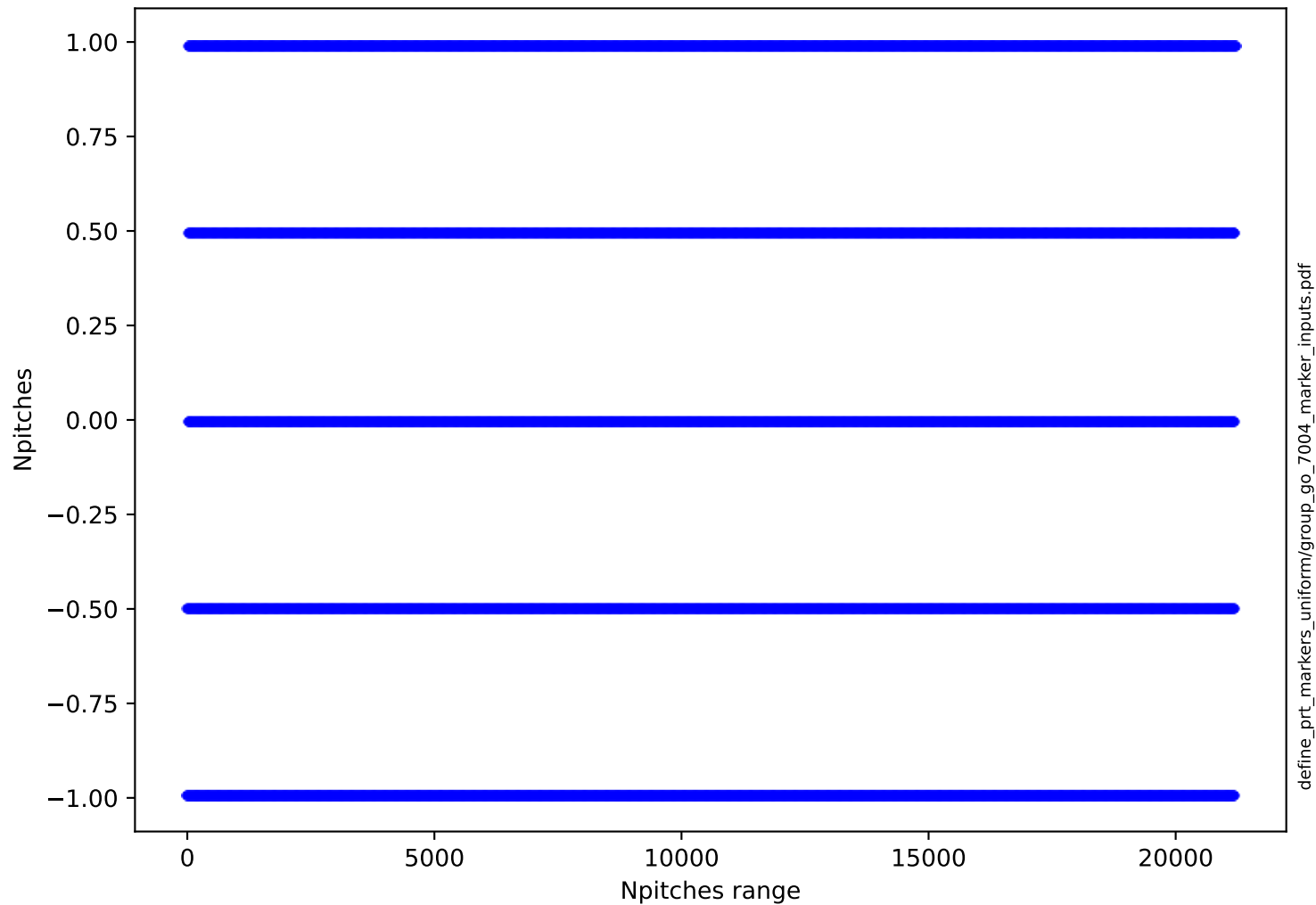




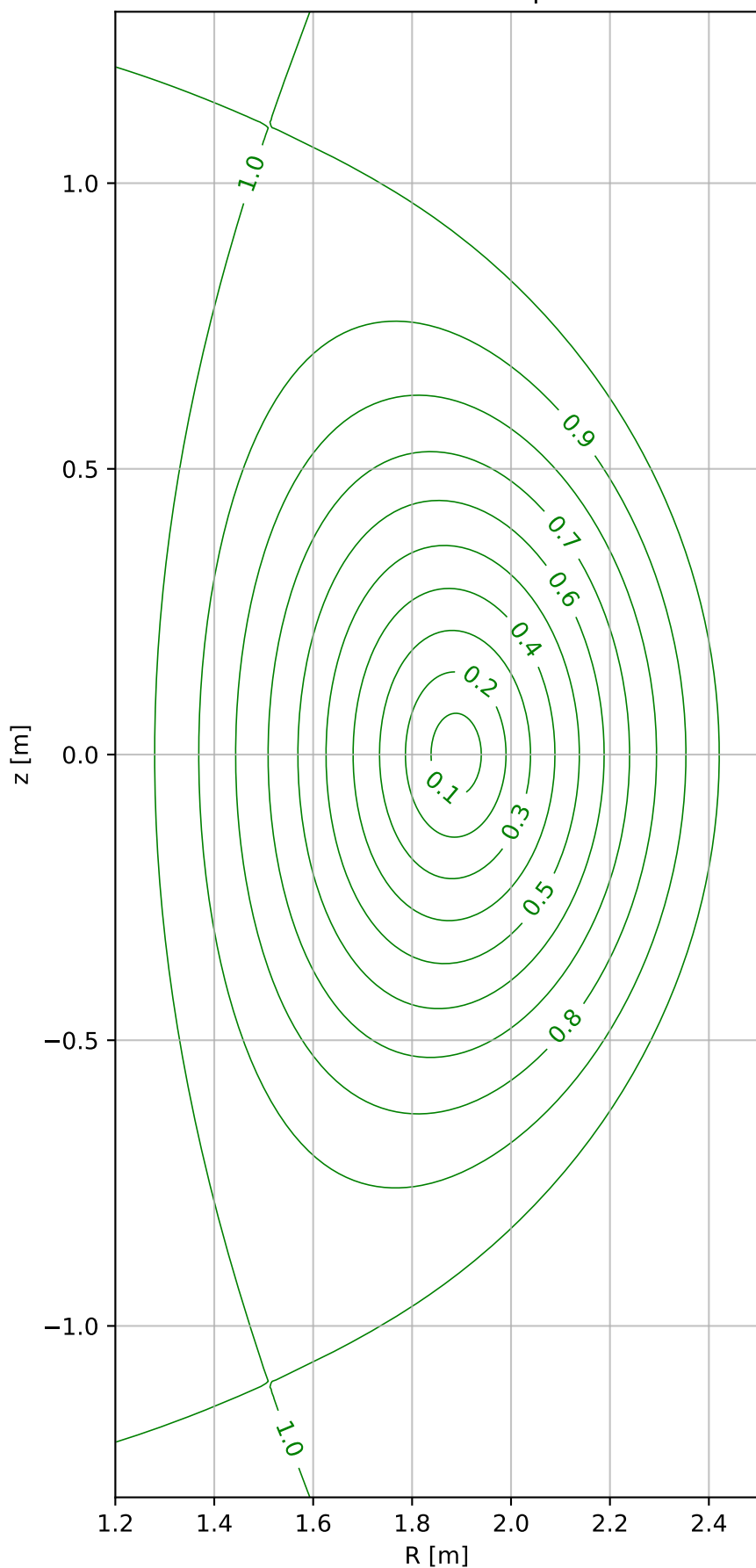
Npitches at $\rho < 0.1$



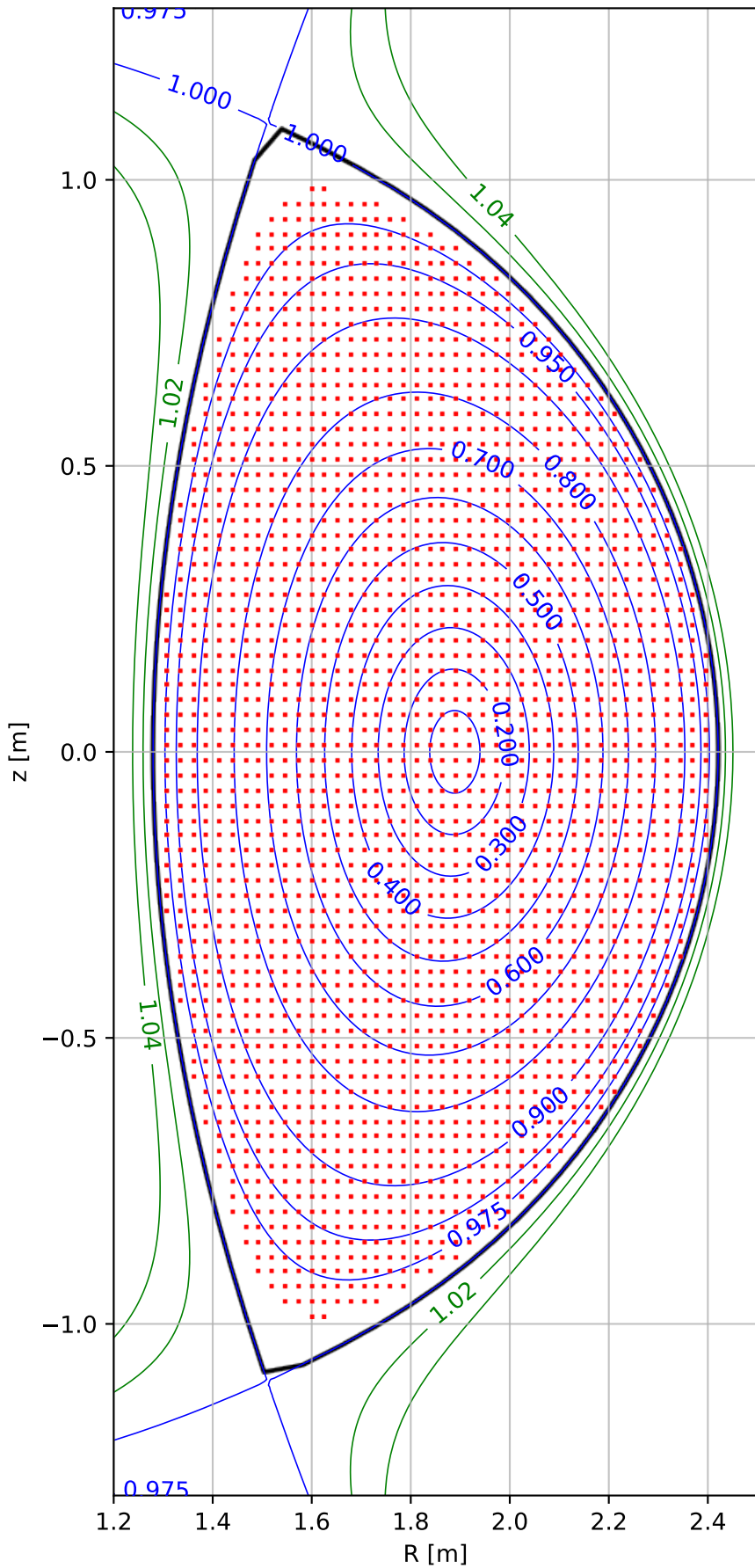
Npitches at $\rho > 0.9$



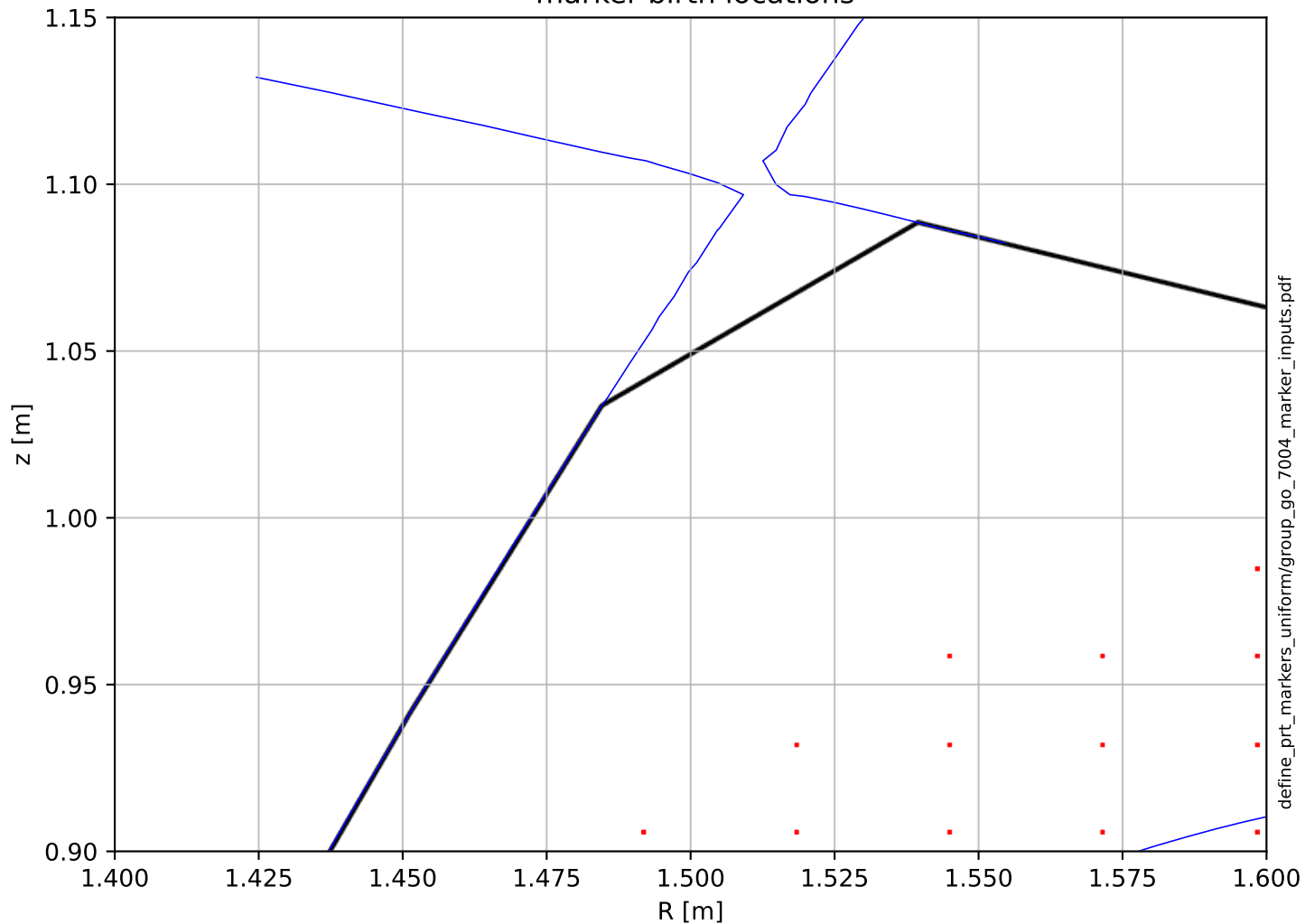
contours of rho-pol



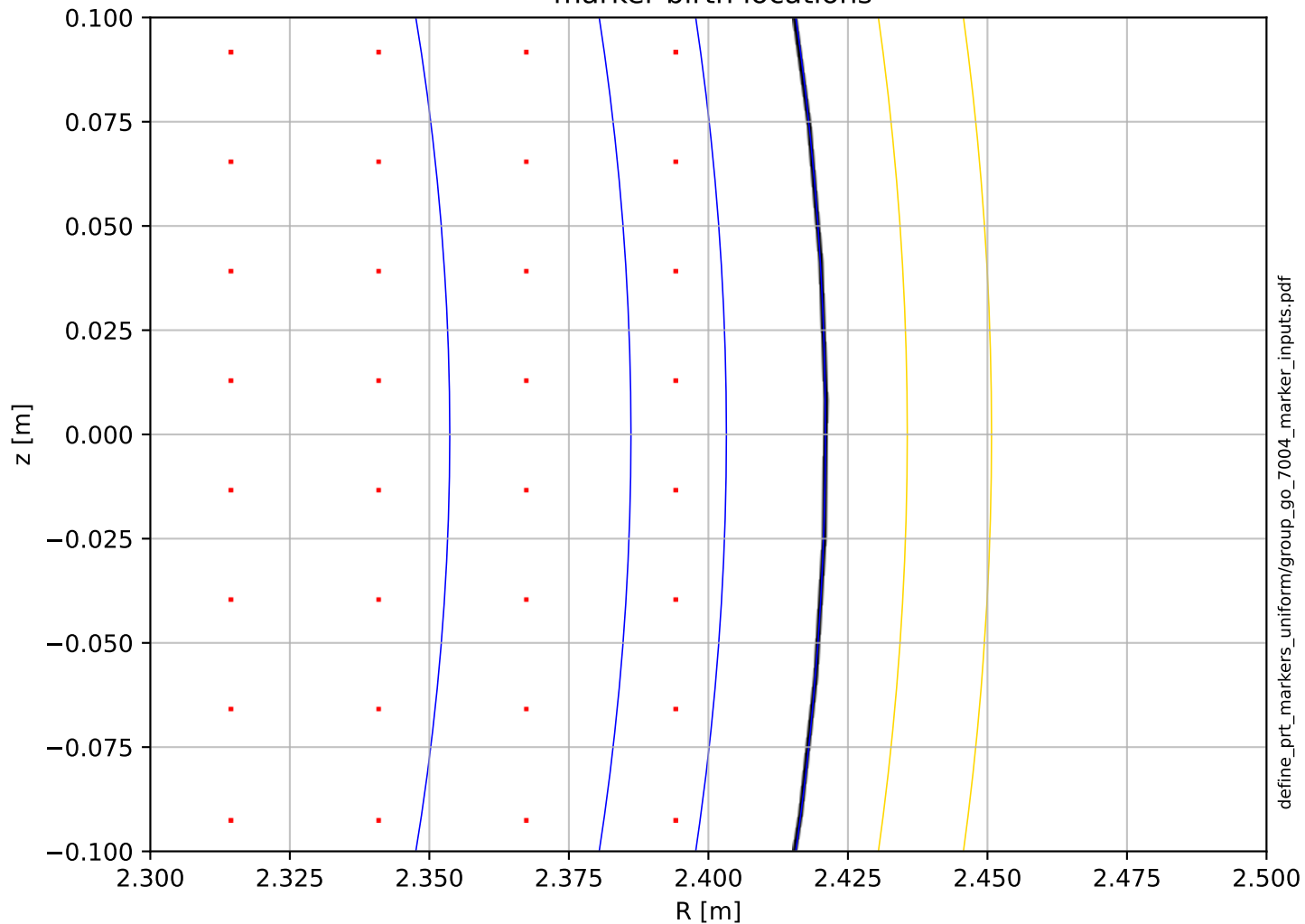
marker birth locations



marker birth locations



marker birth locations



marker birth locations

