



A geometric diagram illustrating the Ly-alpha forest transmission. A vertical line on the left represents the Ly-alpha forest, with a wavy line representing the transmission function δ_F . A vertical dotted line is to its right. A horizontal line extends from the top of the forest to the dotted line. A solid line labeled x connects the top of the forest to a point labeled QSO . A solid line labeled r_1 connects the origin O to the QSO . A dotted line extends from the QSO at an angle β from the solid line x . A shaded gray region is centered on the QSO . An angle θ is shown at the origin O between the vertical line and the solid line r_1 . A solid line labeled r_2 connects the origin O to the top of the forest.

$Ly\alpha$

δ_F

x

β

r_2

QSO

r_1

θ

O