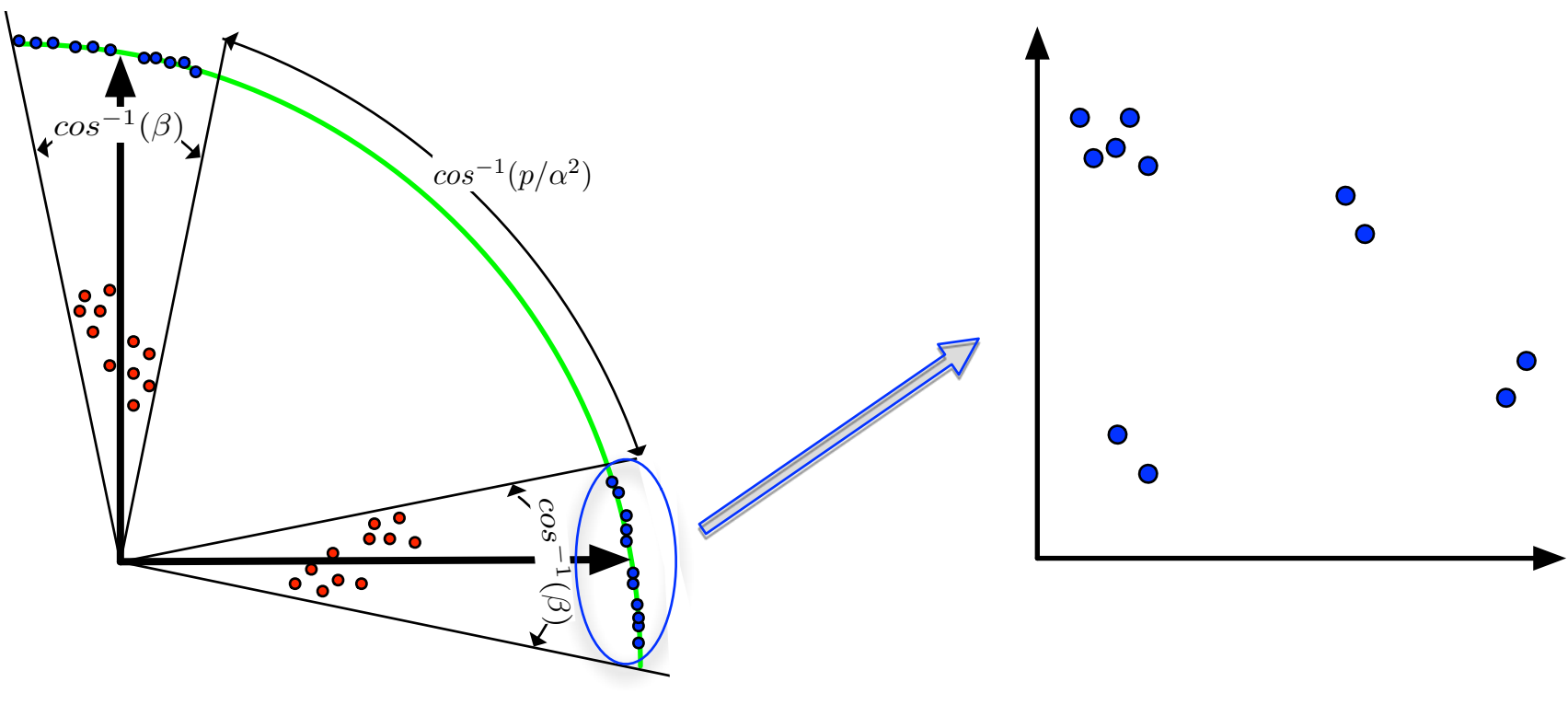

$cos^{-1}(\beta)$
$cos^{-1}(p/\alpha^2)$
$cos^{-1}(\beta)$