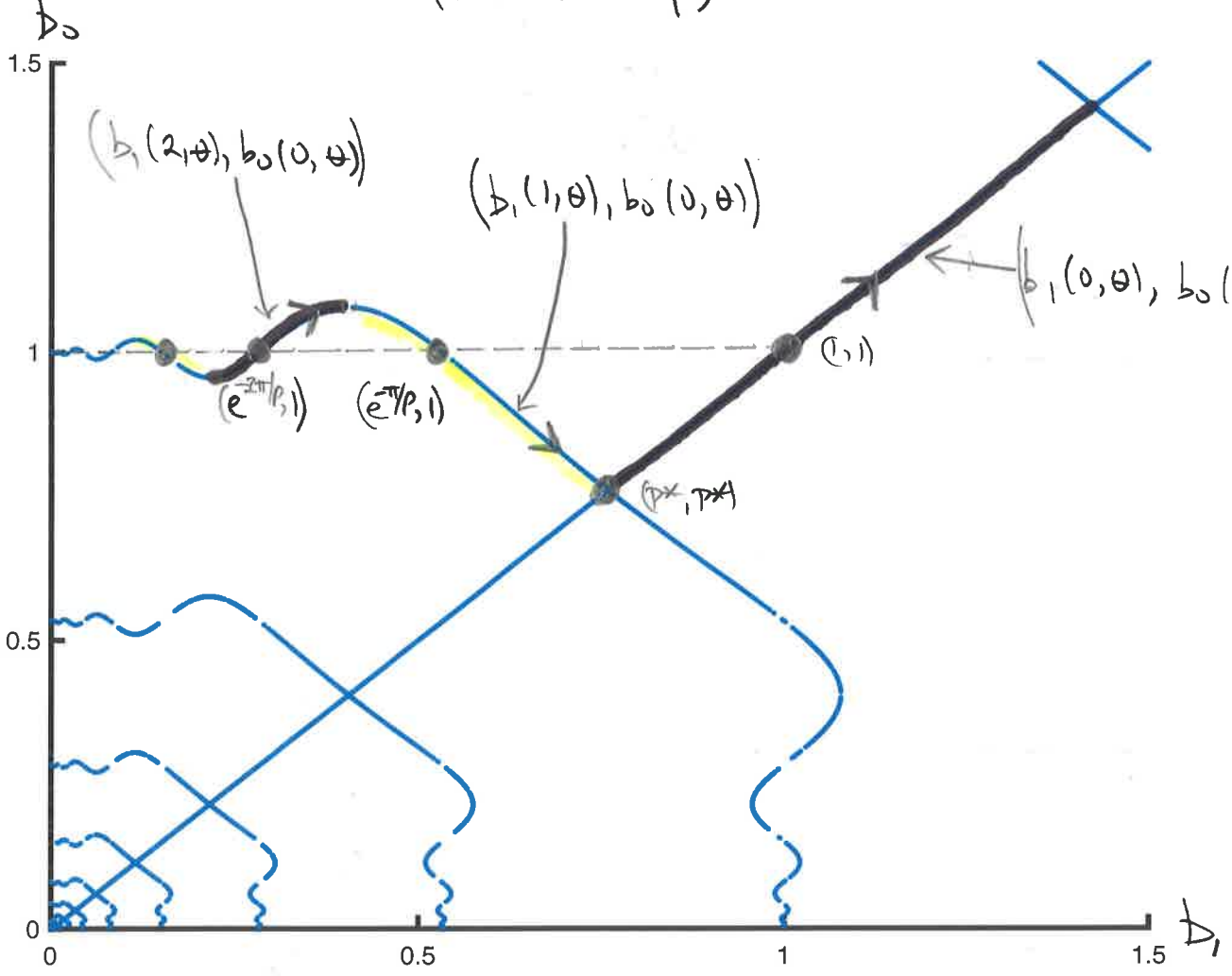
First three pieces of parameterization
arrows in dir. of inc. θ
$\theta \in [-\arctan\rho,\ \pi - \arctan\rho)$



$\rho^* = e^{-\frac{\pi}{2}\arctan\rho}$