of €[-25,25] Yt+1 = Yt + Ut · Cos(Ye) · dt Yt+1 = Yt + Vt · Sin(Ye) · dt Ytt = Yt + Vt Lf · Ot · dt Vt+1= V++ at-dt

Ctleti= Ctlt + Vt. Sin(ellt) dt = f(xt) - 4+ 4 Sin (ellt) oft eyth= 4- 4dest + Vt . Ot. dt

Constraints

State: =[x,y,y,v,cte,e4]

cost-function: $J = \sum_{t=1}^{N} (cte_t - cte_ref)^2 + (eV_R - eV_ref)^2 + \cdots$

#uars: 6.N+ (N-1) x2 states inputs

> amax = 3.75 m/s2 Lf = 1.17m brake?

94 - 03