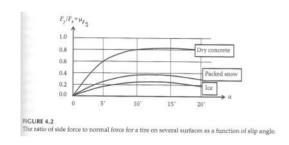
Conclusions

- For small slip angle we assume a linear relationship between $My = \frac{F_y}{\overline{f_2}}$ and slip angle.
- Lateral force is function of slip angle, normal force, and material properties of the tire and the word.
- For low normal force we can assume a linear relationship between Lakeal force and normal force.



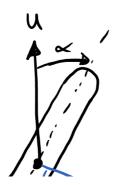
Combined Lateral and Longitudinal Force Generation

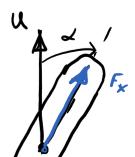
Tires in general generate lat and lon tike forces.

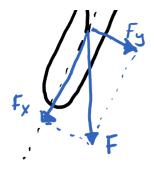
Maximum lateral force can only be generated when longitudinal force is zero and max long.

force can only be generated when lat. force is minincl.







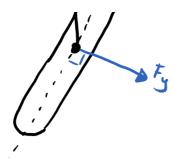


Brokes locked

simple Coulonbo friction behavior

small & minimizes Fy
large & maximize Fy

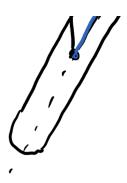
SB=1



Pure rolling

Fx = 0

Fy can be maximized by increasing at $S_B = 0$



Burnon

Fy = 0

5₀=1

