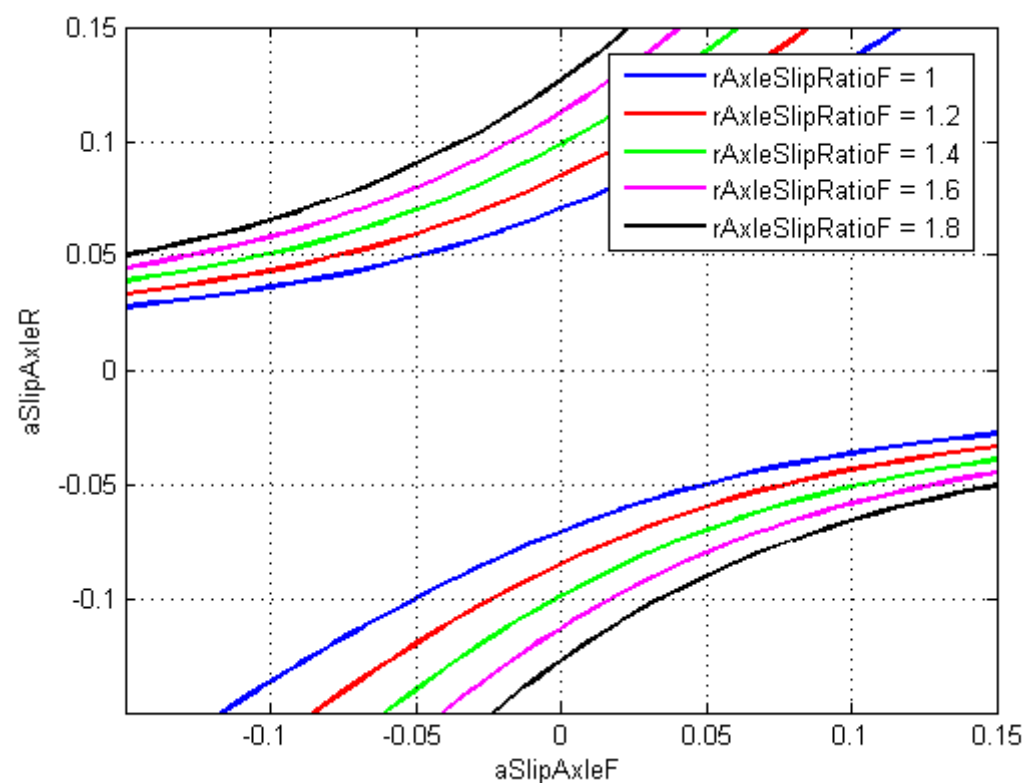
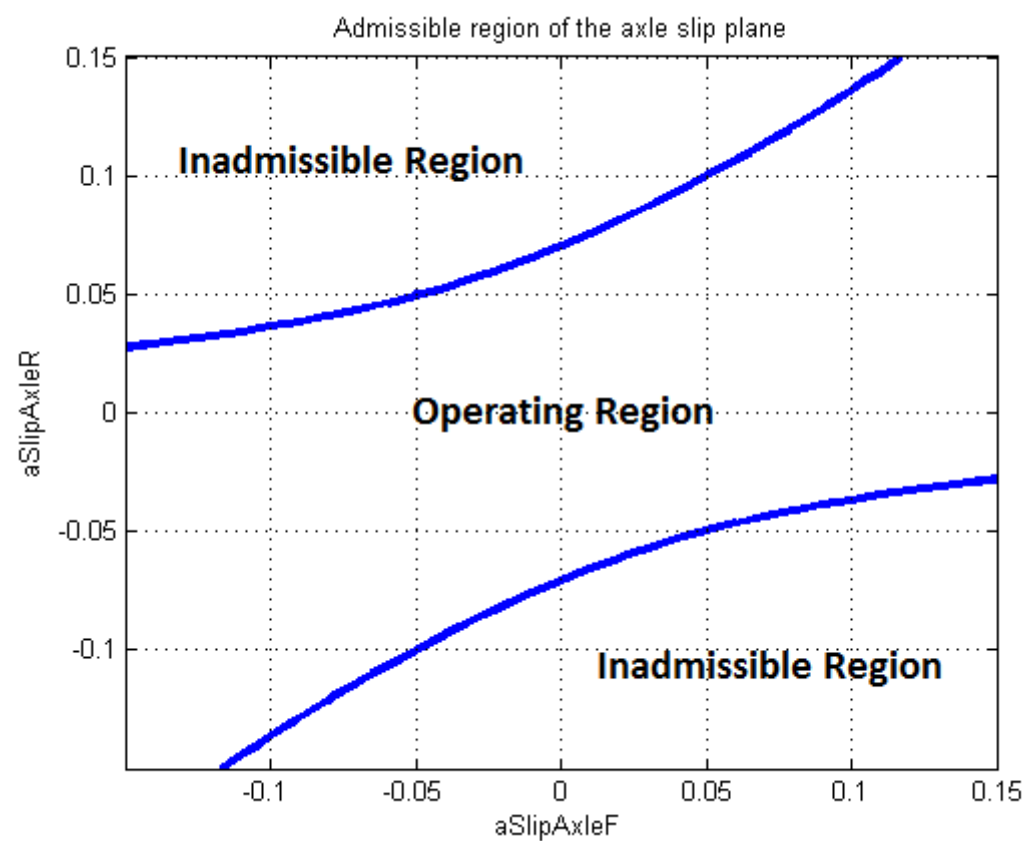


Powertrain - Harvest Independence	Optimal BBW		BBW Map	Fixed Brake Balance
	Independent Harvest	Season 5 FE <input checked="" type="checkbox"/> Perfect Brake Balance <input checked="" type="checkbox"/> Regen Off Brakes <input checked="" type="checkbox"/> Motor/Hydraulic Brake Substitution	Season 5 FE <input type="checkbox"/> Perfect Brake Balance <input checked="" type="checkbox"/> Regen Off Brakes <input checked="" type="checkbox"/> Motor/Hydraulic Brake Substitution	Season 4 FE <input type="checkbox"/> Perfect Brake Balance <input checked="" type="checkbox"/> Regen Off Brakes <input type="checkbox"/> Motor/Hydraulic Brake Substitution
	Achieve Target Brake Balance	F1 <input checked="" type="checkbox"/> Perfect Brake Balance <input type="checkbox"/> Regen Off Brakes <input checked="" type="checkbox"/> Motor/Hydraulic Brake Substitution	F1 (BBal Shift Through Stop) <input type="checkbox"/> Perfect Brake Balance <input type="checkbox"/> Regen Off Brakes <input checked="" type="checkbox"/> Motor/Hydraulic Brake Substitution	F1 (Constant BBal) <input type="checkbox"/> Perfect Brake Balance <input type="checkbox"/> Regen Off Brakes <input checked="" type="checkbox"/> Motor/Hydraulic Brake Substitution

Front/rear axle slip bounding ratio

The second parameter is the front/rear axle slip bounding ratio. A common difficulty when using lap time simulation tools is their ability to balance an unstable car on a knife edge, in a manner which a real driver finds impossible. In order to avoid this undesirable situation the front and rear axle slips are constrained to operate in a user-controlled region, as shown in [the figure below](#).

Lower numbers for the bounding slip ratio force the car to operate in an increasingly conservative region. While this number does not constitute a complete stability metric it is an effective heuristic.



Parameter	Definition
rBrakeBalF	The proportion of total brake pressure directed towards the front brakes.
brakeBalanceOptimisation	Options to optimise brake balance or run brake-by-wire.
rAxleSlipBoundRatioF	A parameter which bounds the relative slip ratio between the front and rear axles.