

## LOAD CASES - MECAMASTER

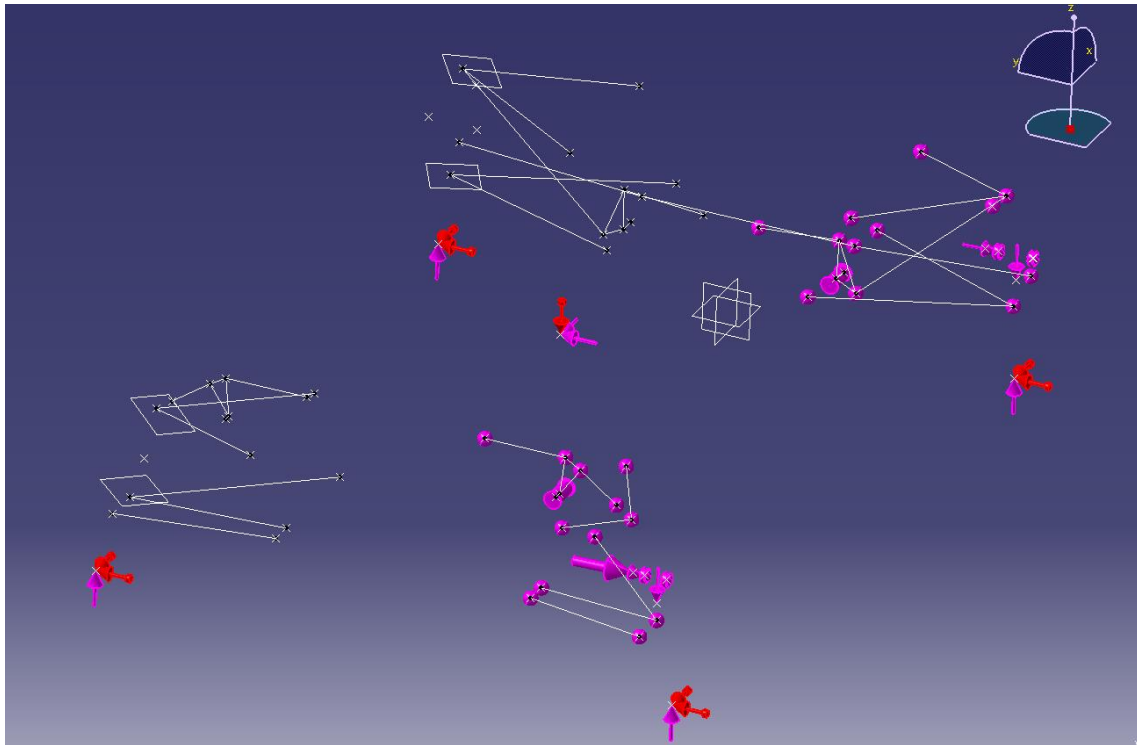


Figure 1: General view of MecaMaster model

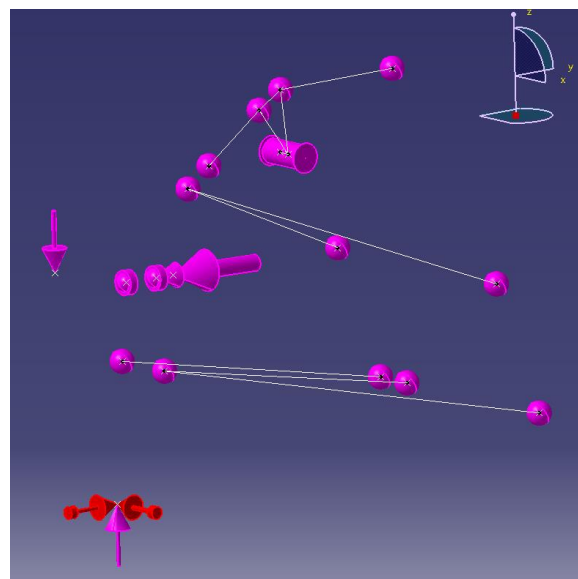


Figure 2: Rear right wheel detail

## Hypothesis

LOAD CASE	HYPOTHESIS TO REMOVE THE HYPERSTATISM
Left Turn 2G	Longitudinal plan of symmetry
Right Turn 2G	Longitudinal plan of symmetry
Left Turn 1G + Braking 1G	Rear internal wheel > $F_z=0N$
Right Turn 1G + Braking 1G	Rear internal wheel > $F_z=0N$
Acceleration 0.77G	Lateral plan of symmetry
Braking 2G	Lateral plan of symmetry
Inverse Braking 0.5G	Lateral plan of symmetry
Bump 3G	Lateral plan of symmetry

## Examples of results

Part	Acceleration 0.77g (N)	Braking 2g (N)	Left turn 1g + braking 1g (N)	Left turn 2g (N)	Reverse braking 0.5g (N)	Bump 3g (N)
Steering link	12	73	411	860	26	50
Toe link	1286	30	520	1402	207	345
Front pullrod	1104	2723	2542	2730	1265	4669
Rear pushrod	1148	222	1020	1472	1056	2669
Front lower A-Arm, front pivot	53	5827	1973	2090	600	224
Rear lower A-Arm, front pivot	1534	1169	3928	3190	1623	475

