I. Torseur cinétique

$$\{\mathcal{C}_{S/\mathcal{R}_0}\} = \left\{ \begin{array}{c} \overrightarrow{p_{S/\mathcal{R}_0}} = \int_S \overrightarrow{v_{M_{S/\mathcal{R}_0}}}\, dm \\ \overrightarrow{\sigma_{C\,S/\mathcal{R}_0}} = \int_S \overrightarrow{CM} \wedge \overrightarrow{v_{M_{S/\mathcal{R}_0}}}\, dm \end{array} \right\}_C$$

$\mathcal{C}_{S/\mathcal{R}_0}$	:	torseur cinétique
$\overrightarrow{p_{S/\mathcal{R}_0}}$	:	quantité de mouvement
$\overrightarrow{\sigma_{C\,S/\mathcal{R}_0}}$	:	moment cinétique en C

$$\{\mathcal{C}_{S/\mathcal{R}_0}\} = \left\{ \begin{array}{c} \overrightarrow{p_{S/\mathcal{R}_0}} = m\overrightarrow{v_{G_{S/\mathcal{R}_0}}} \\ \overrightarrow{\sigma_{G\,S/\mathcal{R}_0}} = \overline{\overline{I_G(S)}}\,\overrightarrow{\Omega_{S/\mathcal{R}_0}} \end{array} \right\}_G = \left\{ \begin{array}{c} \overrightarrow{p_{S/\mathcal{R}_0}} \\ \overrightarrow{\sigma_{C\,S/\mathcal{R}_0}} = \overrightarrow{\sigma_{C\,S/\mathcal{R}_0}} + \overrightarrow{CG} \wedge \overrightarrow{p_{S/\mathcal{R}_0}} \end{array} \right\}_C$$

II. Torseur dynamique

$$\{\mathcal{D}_{S/\mathcal{R}_0}\} = \left\{ \begin{array}{c} \overrightarrow{h_{S/\mathcal{R}_0}} = \int_S \overrightarrow{a_{M_{S/\mathcal{R}_0}}}\, dm \\ \overrightarrow{\delta_{C\,S/\mathcal{R}_0}} = \int_S \overrightarrow{CM} \wedge \overrightarrow{a_{M_{S/\mathcal{R}_0}}}\, dm \end{array} \right\}_C$$

$\mathcal{D}_{S/\mathcal{R}_0}$	:	torseur dynamique
$\overrightarrow{h_{S/\mathcal{R}_0}}$	:	quantité d'accélération
$\overrightarrow{\delta_{C\,S/\mathcal{R}_0}}$	:	moment dynamique en C

$$\{\mathcal{D}_{S/\mathcal{R}_0}\} = \left\{ \begin{array}{c} \overrightarrow{h_{S/\mathcal{R}_0}} = m\overrightarrow{a_{G_{S/\mathcal{R}_0}}} \\ \overrightarrow{\delta_{G\,S/\mathcal{R}_0}} = \left(\dfrac{d\overrightarrow{\sigma_{C\,S/\mathcal{R}_0}}}{dt}\right)_{\mathcal{R}_0} \end{array} \right\}_G = \left\{ \begin{array}{c} \overrightarrow{h_{S/\mathcal{R}_0}} \\ \overrightarrow{\delta_{C\,S/\mathcal{R}_0}} = \overrightarrow{\delta_{G\,S/\mathcal{R}_0}} + \overrightarrow{CG} \wedge \overrightarrow{h_{S/\mathcal{R}_0}} \end{array} \right\}_C$$