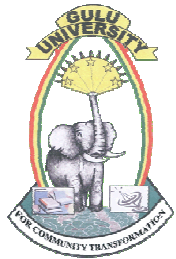


Introductory General Physics (Sassi-Smaldone)



Gulu University

Naples FEDERICO II University




#

Newton Laws (Dynamics Principles)

The Principle of Inertia

(Newton I^o law)



A body stays in its state of rest or in linear and uniform motion unless compelled by an external cause to change its state

In which **RIFERENCE SYSTEM** ???

INERTIAL

II law of motion

$$\mathbf{F=ma}$$

$$\mathbf{F} \quad ? \quad \mathbf{m} \quad ? \quad \mathbf{m} \quad [\mathbf{m}] \quad \mathbf{kg}$$
$$\mathbf{F} \quad [\mathbf{m} \mathbf{l} \mathbf{t}^{-2}] \quad \mathbf{kg} \quad \mathbf{m} / \mathbf{s}^2 \equiv \mathbf{Newton} \quad (\mathbf{N})$$

WHERE ? WHEN ?

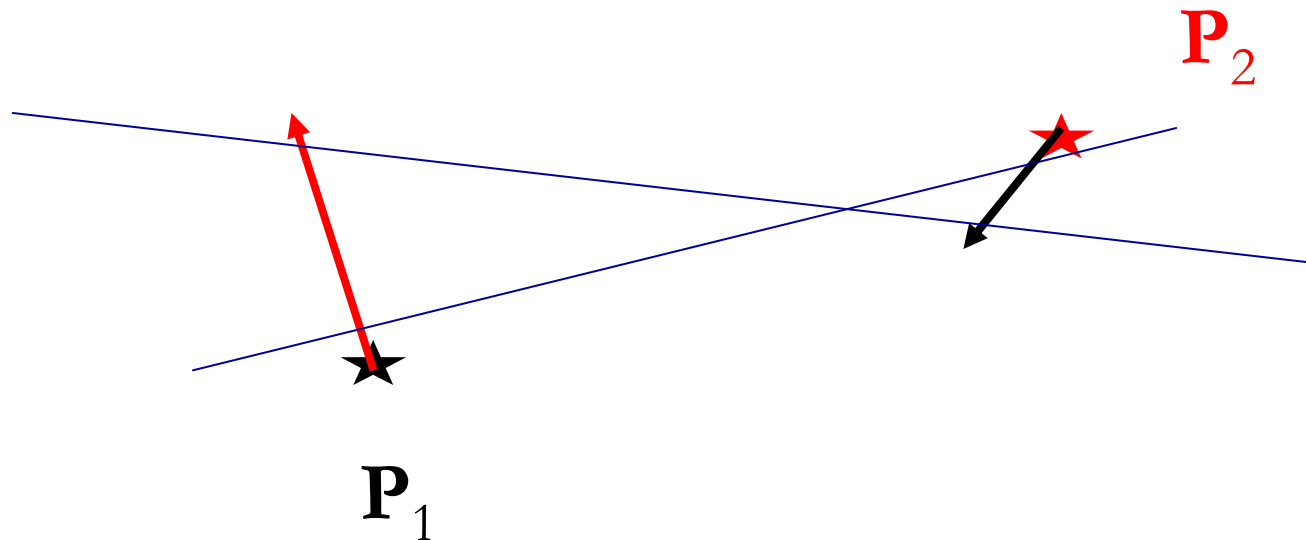
(in which **RIFERENCE SYSTEM ?**

INERTIAL

Action and Reaction Principle

(Newton III^o law)

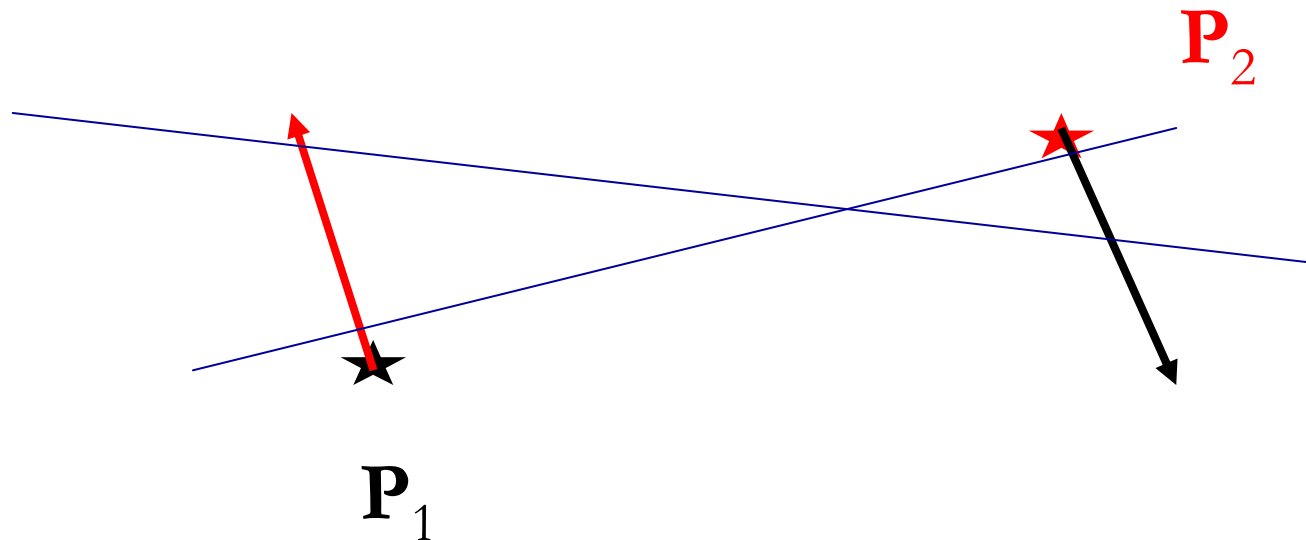
For every action there is an equal
but opposite reaction



Action and Reaction Principle

(Newton III^o law)

For every action there is an equal
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Action and Reaction Principle

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