

Newton's Third Law of Motion has been proved WRONG by NASA(National Aeronautical Space Administration, USA)

Action = 5 units (say) but Reaction =0 , in EmDrive Engine.

Ajay Sharma had published a paper 18 years ago, MODIFIED/Generalized Newton's 3rd law , proving it wrong in journal Acta Ciencia Indica . Sharma's work gets NASA's support

..... Scientists must accept failure of Newton's 3rd law as results of NASA's; or perform better experiments to prove NASA wrong.

-----Paths of NASA and Ajay Sharma are different but results is same.....3rd Law wrong.....

The Eagleworks Laboratory Houston, Texas of NASA'S (National Aeronautical Space Administration, like ISRO) Johnson Space Centre have confirmed that Newton's Third Law of Motion has failed in EmDrive tests. AFTER PEER REVIEW The research paper of NASA scientists has been published in journal "Propulsion and Power "published by **American Institute of Aeronautics and Astronautics '**

The paper is published online on 17 November 2016 and in print in December 2016. The scientists have observed reaction no reaction in EmDrive for definite action . Hence Action =5units say, Reaction =0. Thus, the third law fails here as it predictsAction = Reaction.... always.

About 18 years ago in 1999 Ajay Sharma had pointed out limitations of Third Law of motion , and published paper in **Acta Ciencia Indica . Sharma** modified the Newton's 3rd Law.Action may or may not be equal to Reaction..... Now NASA scientists have reached at same conclusion. We talked to Ajay Sharma on the issue.

Q1. What is the basis of NASA's experiments, which confirms failure of Newton's third law?

Ajay Sharma : When a fireworks is lit , then smoke and gases are ejected backward .Thus fireworks moves forward as action, smoke and gases move backward as reaction. As the action and reaction are equal,

.....Action = Reaction.....t

the third law is obeyed. The same is principle of the rocket, which moves in the space.

Q2. How Newton's Third Law of Motion is proved wrong in NASA'S experiment?

Ajay Sharma : In an engine called EmDrive (Electromagnetic Drive) , solid or liquid fuel is not used. In the EmDrive, microwaves are used as fuel. In experiment the engine moves forward as action, but as reaction no smoke or gases were emitted. Thus, there is action but no reaction.

Q3. How scientists accepted the results of experiments?

Ajay Sharma : In fact this experiment is brainchild of English scientist and aerospace engineer Roger Shawyer . He put forth the rocket can be propelled with microwaves only. No solid and liquid fuel is necessary. It would be too easy to launch satellite. It was the dream he wanted to realize. The success means failure of Newton's Third law of motion. British Govt. donated Pound 45,000/ to Roger Shawyer and he did first experiment. It was partially successful but did not get any credit, but lost his job. In 2008, Chinese scientists performed similar experiments, they showed forward movement but due to technical errors none accepted the results.

Q4 How did scientists agreed to the results of NASA scientists ?

Ajay Sharma ; NASA scientists performed the experimentally carefully in vacuum , removing air from the room. They wrote a detailed paper and sent to Editor-in-Chief of the journal. After long deliberations, the paper was accepted for publication and has been published in the journal **"Propulsion and Power"**.

Now NASA scientists have proved inadequacy of Third Law of Motion , now either scientists accept it or move NASA scientists wrong in more sensitive experiments. At the moment Newton's third law of motion, must be regarded as failure in NASA's EmDrive.

Q5 How does this experiment proves your research correct?

Ajay Sharma : NASA has proved Newton's Third Law of Motion wrong in EmDrive wrong. I have proved the failure of Newton's Third Law of Motion in 17 years ago in paper published in 1999 in **Acta Ciencia Indica**. In the paper I have modified Third law of motion as **" to every action there may be reaction, but may or may not be equal to action."** The same issue I have discussed in two chapters in the book **Beyond Newton and Archimedes**. Further in 2016, I have published paper in Physics Essays.

Q6 What is claim of Chinese scientists regarding EmDrive?

Ajay Sharma . In press conference Dr Chen Yue, Director of Commercial Satellite Technology, China stated that NASA scientists have re confirmed their results. Further Chinese are conducting these experiments in **Tiangong 2** Space Station (heavenly abode). Then they want to use the technology to propel satellites in space. Thus they claim they are head of Americans. But Chinese did not release design of engine, observations, methodology, results and full text of paper. Is it their game plan or something else?

Q7 Will scientists use this technology in sending satellites without solid and liquid fuel ?

Ajay Sharma : Yes, it is first aim of scientists. Roger Shawyer (who developed concept of engine), predicted that with this technology, a satellite can reach Mars in 70 days . The microwaves will serve as cheapest mode of travel to space. The microwaves can be produced with help of solar energy only. No solid or liquid fuel is needed.

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