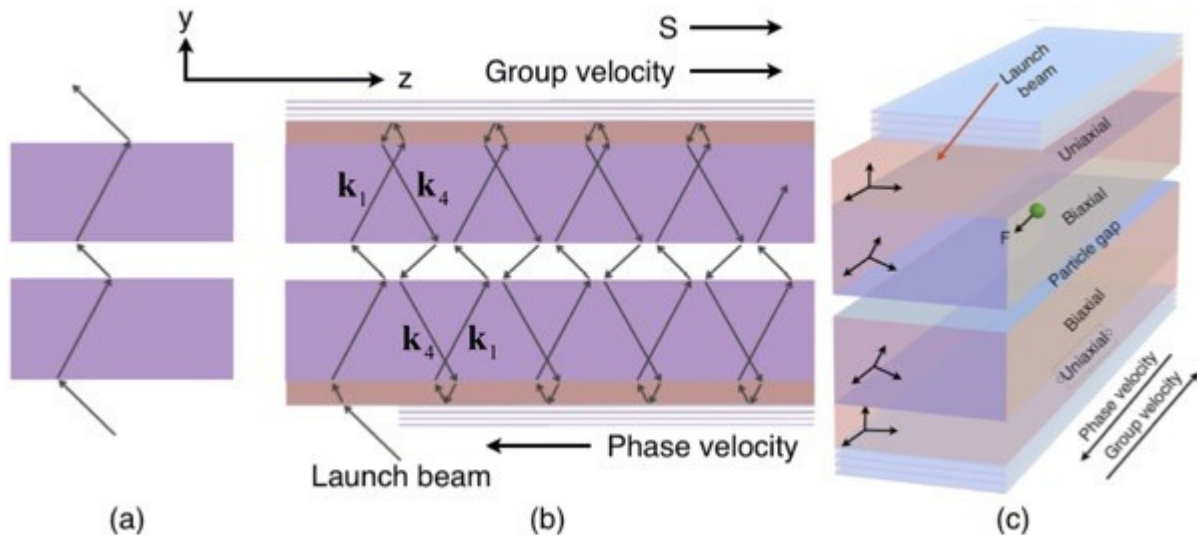


## Real tractor beams achieved



*" All images used are for illustrative purposes only. The material available on this website is provided for general information and education purposes only. All images are copyrighted by their respective owners "*

Developing a real, working tractor beam has regularly been an exercise in frustration: it often relies on brute force attempts to induce a magnetic link or an air pressure gap, either of which falls a bit short of science fiction-level elegance. Now a theory that would use the subtler (though not entirely movie-like) concept of negative radiation pressure in light to move objects. By using materials that have a negative refraction index, where the light photons and their overall wave shape move in opposite directions, the researchers want to create a sweet spot where negative radiation pressure exists and an object caught in the middle can be pushed around. Their early approach would use extremely thin crystals stacked in layers to manipulate the refraction. The millimeters-wide layer intervals dictate the size of what can be pulled. Nonetheless, even the surgery-level tractor beams that Segev hopes will ultimately stem from upcoming tests would bring us much closer to the future.

For Additional Information please contact [info@technologyconcepts.in](mailto:info@technologyconcepts.in)