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## Light intensity does not always decay with the inverse of the square of the distance: an open-inquiry laboratory

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The square inverse law with distance plays an important role in many fields of physics covering electromagnetism, optics or acoustics. However, as every law in physics has its range of validity. We propose a laboratory where we challenge these concepts by proposing experiments where the intensity of light decays linearly or even remains constant over a range of distances. This laboratory, initially proposed in the context of the COVID19 pandemic, has the virtue of challenging intuition and encouraging the critical spirit of the students.

### How would you like to present your contribution?

Live in Kraków (time slot to be allotted based on the programme)

### Target education level

University

### Category

Formal Education

**Primary authors:** MARTI, Arturo (UdelaR); STARI, Cecilia (UdelaR); ABREU, Marcos (UdelaR); MONTEIRO, Martín (Universidad ORT Uruguay)

**Presenters:** MARTI, Arturo (UdelaR); STARI, Cecilia (UdelaR)

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