



Contribution ID: 4

Type: **Poster**

## Examining naïve conceptions regarding the enlightenment of a light bulb filament

*Thursday, 29 August 2024 12:20 (10 minutes)*

Within the present study, we empirically examine an example frequently cited in the literature on physics teaching to illustrate that one's naïve conceptions can influence the observation of a natural phenomenon. Conducted through an online survey, we challenged 158 participants to predict, reason, and observe the enlightenment of a light bulb filament. Our interim results reveal a contradiction to the description within literature on physics teaching since our participants rarely observed outcomes consistent with their own predictions ( $\kappa=.111$ ) and reasonings ( $\kappa=.184$ ). Details on the present study's design as well as further interim results are outlined in this proposal.

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

Hybrid from my own country (later in the conference day, best for Americas )

### Target education level

General

### Category

Formal Education

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**Session Classification:** Poster session

**Track Classification:** Teaching and Learning Physics Concepts