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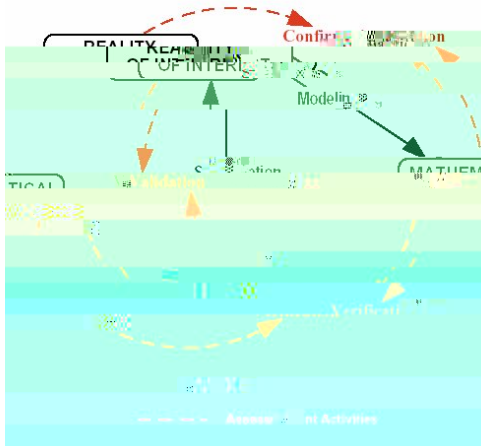

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U P :S[illegible]

```
import easyvvuq as uq
input_json = "test_cannonsim.json"
output_json = "out_cannonsim.json"
number_of_samples = 15
my_campaign = uq.Campaign(state_filename=input_json)
# Set parameters to vary
my_campaign.vary_param("angle",
                       dist=uq.distributions.uniform(0.0,[illegible] rs
```

U P :Ca a

```
    "runs":
        "Run_0": {
            "angle": 0.7757645082270815,
            "height":
```

U P :A

```
output_filename = 'output.csv'
output_columns = ['Dist', 'lastvx', 'lastvy']
uq.elements.collate.aggregate_samples(my_campaign,
                                      output_filename=output_filename,
                                      output_columns=output_columns,
                                      header=0)
stats = uq.elements.analysis.BasicStats(my_campaign, value_cols=output_columns)
results, output_file = stats.apply()
my_campaign.save_state(output_json)
```

E

- BaseEncoder
- encode
  - params -
  - target_dir -

E :G

(cannonsim.template)

```
CANONSIM_INPUT_FILE:
gravity = #gravity
mass = #mass
velocity = #velocity
angle = #angle
height = #height
air_resistance = #air_resistance
time_step = #time_step
```

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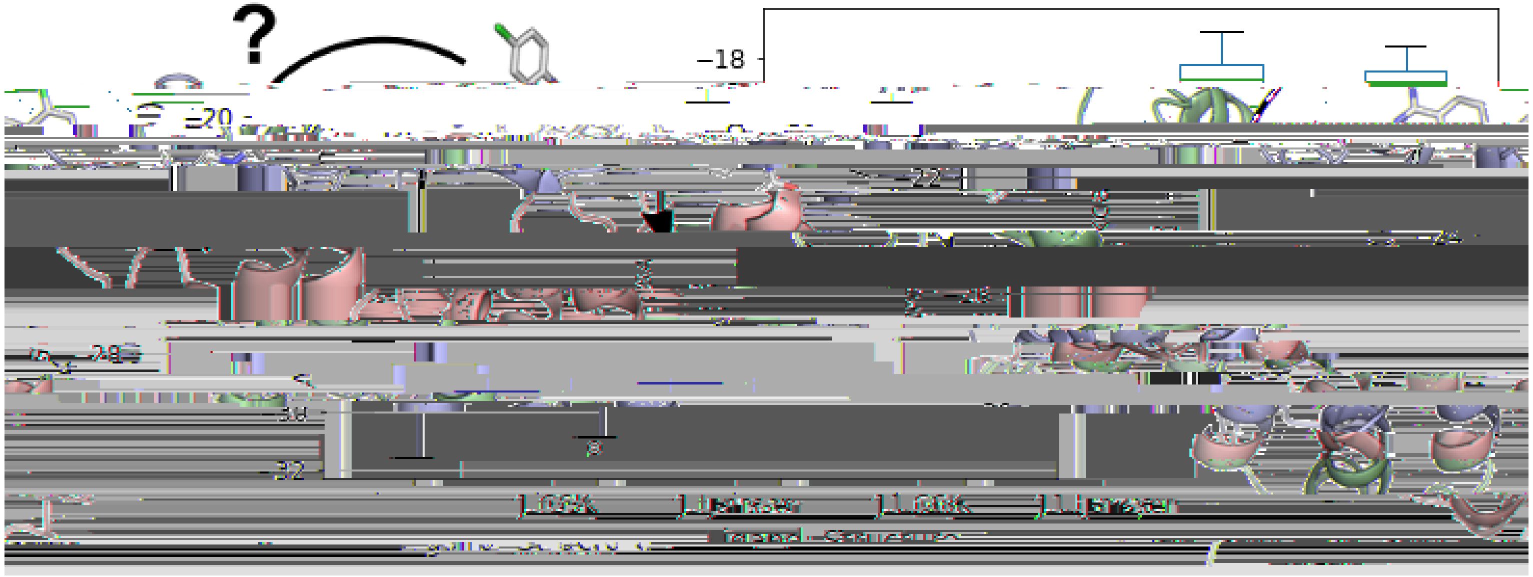

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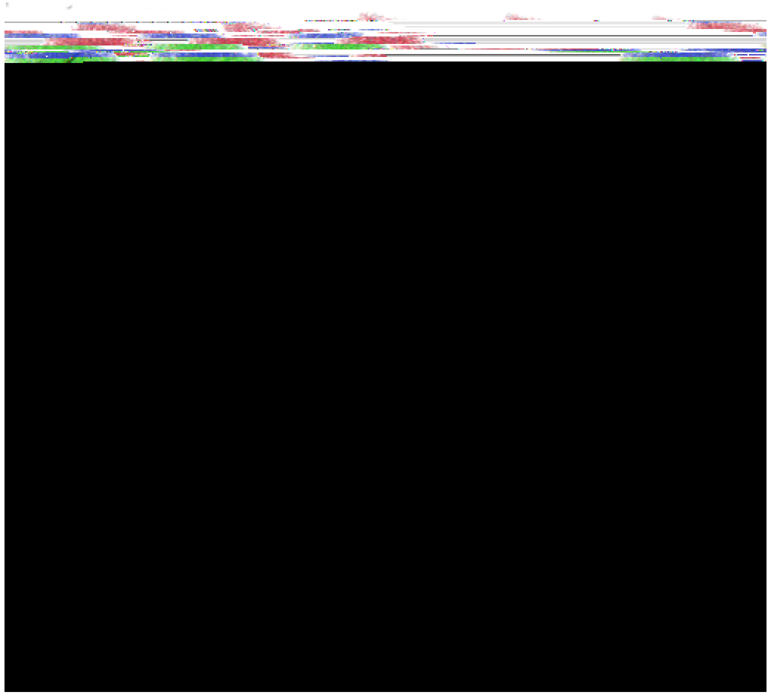

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