Title of the document

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Introduction

This is how we can type labelled equations

$$\hat{H}\psi(\mathbf{r}) = E\psi(\mathbf{r}) \tag{1}$$

For writing code we can do it like this

```
def iou3D(box_unet, centroid_star):

  ndim = len(centroid_star)
  inside = False

  Condition = [Conditioncheck(centroid_star, box_unet,
   p, ndim)
   for p in range(0,ndim)]

  inside = all(Condition)

  return inside

def Conditioncheck(centroid_centroid, box_unet,
       p, ndim):

  condition = False

  if centroid_star[p] >= box_unet[p]
  and centroid_star[p] <= box_unet[p + ndim]:

       condition = True

  return condition
```

For adding a figure it is like

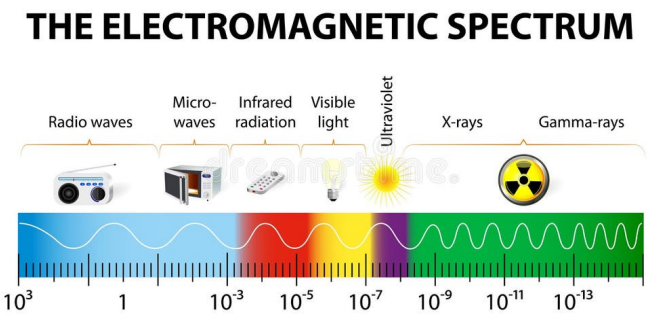

Fig. 1: *Schematic representation showing the radiation spectrum with decreasing wavelength (in meters) from left to right, radio waves have wavelength of kilometers (that is what it needs to be in our houses from a transmitter tower), microwaves of about 5 cm (easy guess as the size of the box itself is about 15 cm or so) while the visible radiation is 400-800 nano meter.*

radiation

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