PhD Diary for Week beginning Monday the 7th of January

Nathan Hughes

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Contents

1 Agenda

1.1 **TODO** Organise Interim meeting with Richard and Christine

1.2 **TODO** Fill out the PDP form

1.3 **DONE** Build analytical solution to 1D diffusion

See last entry in December for links to explanations

```
1  def C(x, t, D): return (1/np.sqrt(4*np.pi*D*t)
2                  * np.exp(- ((np.square(x))/(4*D*t)))))
```

1.4 **TODO** Understand Analytical solution to 1D diffusion [0/5]

☐ Read up on ODEs

☐ Read up on PDEs

☐ Learn how to separate variables of PDE/ODE

☐ https://www.youtube.com/watch?v=HKvP2ESjJbA&list=PLwIFHT1FWIUJYuP5y6YEM4WWrY4kEmIuS

☐ https://www.youtube.com/watch?v=LYsIBqjQTdI&list=PLF6061160B55B0203

References