# University of St Andrews

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# Pre-Project Review
Module: PH4111

*by*

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November 19, 2021

**Abstract**

*This work is about . . .*

# 1 Introduction

Why millimetre waves? Mention the meteorological radar range equation. Brief mention of Rayleigh scattering. The meteorological radar range equation, derived by Probert-Jones in 1962, is[1]

$$y = mx + c \tag{1}$$

# 2 Pulse Doppler radar

# 3 Continuous wave radar

# 4 Frequency-modulated continuous wave radar

# 5 Conclusions

# References

[1]J. R. Probert-Jones, "The radar equation in meteorology", Quarterly Journal of the Royal Meteorological Society **88**, 485–495 (1962).