

# God and mathematical beauty

Johannes Abdus Salam

August 18, 2019

## 1 introduction

In the history of mathematics, many beautiful facts have been discovered (Dirac, 1940) and some IDers like me thinks it is the evidences of the existence of God. Below I will explain it.

## 2 A Beautiful Equality and the Existence of God

It is true that

$$\left(\int_0^\infty \frac{\sin x}{\sqrt{x}} dx\right)^2 = \sum_{k=0}^{\infty} \frac{(2k)!}{2^{2k}(k!)^2} \frac{1}{2k+1} = \prod_{k=1}^{\infty} \frac{4k^2}{4k^2-1} = \frac{\pi}{2}$$

therefore God exists.

## 3 Reference

DIRAC, Paul Adrian Maurice. XI.—The Relation between Mathematics and Physics. Proceedings of the Royal Society of Edinburgh, 1940, 59: 122-129.