

The Geometry and Physics of Knots

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When a mathematician addresses a general scientific audience, even as enlightened an audience as attends a Royal Institution Discourse, he faces a daunting task. Mathematics can be such a highly technical and abstract subject that communicating its latest developments to a lay public presents formidable difficulties. Bearing this in mind I selected this evening's topic according to the following criteria. It should have:

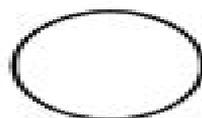
- (1) a simple visual content;
- (2) an interesting historical background;
- (3) a relation to physics;
- (4) a recent exciting story.

I picked on the subject of knots because it seemed to satisfy all these criteria, and on 11th July 1988 I sent my title off to the Royal Institution. Two weeks later, on 26th July, there was a spectacular further break-through which will be my main focus and makes the story even more exciting and topical than I had originally anticipated.

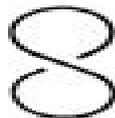
Knots, Links and Braids

Let me begin by introducing the dramatis personae of the evening: *knots* and their close relatives, *links* and *braids*. For a mathematician a knot is a closed piece of string, with no loose ends, exemplified in Figure 1.

These pictures represent the piece of string laid flat on a table, so that at each crossing point one piece is 'under' and the other piece 'over' as indicated. Two knots are considered the same if we can manipulate one so that it looks like the other. The precise length (and thickness) of the string is irrelevant. Only its



Unknot



Unknot



Trefoil

Figure 1

Geometry And Physics Of Knots

G Psacharopoulos



Geometry And Physics Of Knots:

Decoding **Geometry And Physics Of Knots**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Geometry And Physics Of Knots**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Geometry And Physics Of Knots Introduction

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