

# Elementare Differentialgeometrie

## Übungsblatt 5

### Aufgabe 1.

- (a) Sei  $M$  eine Fläche und  $H$  eine Ebene im  $\mathbb{R}^3$ , die  $M$  in einer Kurve  $\gamma$  schneidet. Zeigen Sie, daß  $\gamma$  eine Geodätische ist, falls  $H$  eine Symmetrieebene von  $M$  ist.
- (b) Jede Gerade auf einer Fläche ist eine Geodätische.
- (c) Sei  $M$  die Fläche  $\{x^2 + y^2 - z^2 = 1\}$ . Finden Sie möglichst viele Geodätische auf  $M$ .

**Aufgabe 2.** Man bilde den Durchschnitt des Zylinders  $\{x^2 + y^2 = 1\}$  im  $\mathbb{R}^3$  mit einer Ebene, die die  $x$ -Achse enthält und einen Winkel  $\theta$  mit der  $xy$ -Ebene bildet.

- (a) Zeigen Sie, daß die Schnittkurve  $\gamma$  eine Ellipse ist.
- (b) Berechnen Sie die geodätische Krümmung und die Normalkrümmung von  $\gamma$ , aufgefaßt als Kurve im Zylinder, in den Punkten, in denen die Ellipse ihre Achsen schneidet.

### Aufgabe 3.

- (a) Die Matrix  $(L_{ij})$ , die die zweite Fundamentalform beschreibt, ist für eine Rotationsfläche wie in Aufgabe 1 vom Übungsblatt 4 gegeben durch

$$\frac{1}{\sqrt{r^2 + z^2}} \begin{pmatrix} rz - zr & 0 \\ 0 & rz \end{pmatrix}.$$

- (b) Es gilt  $\det(L_{ij}) = 0$  genau dann, wenn jeder Meridian eine Gerade ist.

**Aufgabe 4.** Betrachten Sie ein Flächenstück von der Form

$$\kappa(u^1, u^2) = (u^1, u^2, f(u^1, u^2)),$$

d.h. einen Graphen. Berechnen Sie die erste und die zweite Fundamentalform  $(g_{ij})$ ,  $(L_{ij})$ . Bestimmen Sie das Christoffel-Symbol  $\Gamma_{11}^2$  sowohl extrinsisch (d.h. mittels der ursprünglichen Definition) als auch intrinsisch (d.h. mittels Satz 3.5).

# Elementare Differentialgeometrie

**Ensheng Dong**



## **Elementare Differentialgeometrie:**

## Unveiling the Magic of Words: A Report on "**Elementare Differentialgeometrie**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Elementare Differentialgeometrie**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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