b.w.

## Elementare Differentialgeometrie

Übungsblatt 5

#### Aufgabe 1.

- (a) Sei M eine Fläche und II eine Ebene im R³, die M in einer Kurve γ schneidet. Zeigen Sie, daß γ eine Geodätische ist, falls II eine Symmetrieebene von M ist.
- (b) Jede Gerade auf einer Fläche ist eine Geodätische.
- (c) Sei M die Fläche {x² + y² − z² = 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 γ eine Ellipse ist.
- (b) Berechnen Sie die geodätische Krümmung und die Normalkrümmung von γ, aufgefaßt als Kurve im Zylinder, in den Punkten, in denen die Ellipse ihre Achsen schneidet.

#### Aufgabe 3.

(a) Die Matrix (Lij), die die zweite Fundamentalform beschreibt, ist für eine Rotationsfläche wie in Aufgabe 1 vom Übungsblatt 4 gegeben durch

$$\frac{1}{\sqrt{r^2+\pm^2}}\left(\begin{array}{cc} \dot{r}\,\bar{z}-\pm\bar{r} & 0 \\ 0 & r\pm \end{array}\right).$$

(b) Es gilt det (Lij) = 0 genau dann, wenn jeder Meridian eine Gerade ist.

Aufgabe 4. Betrachten Sie ein Flächenstück von der Form

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

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**

**DJ Losen** 

**Elementare Differentialgeometrie:** 

#### Decoding **Elementare Differentialgeometrie**: Revealing the Captivating Potential of Verbal Expression

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