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 θ 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 Γ_{11}^2 sowohl extrinsisch (d.h. mittels der ursprünglichen Definition) als auch intrinsisch (d.h. mittels Satz 3.5).

Elementare Differentialgeometrie

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