



9. Übung zu 'Mathematische Methoden der Bildrekonstruktion'  
 Wintersemester 2013/14

1. Aufgabe Gefilterte Rückprojektion

2 Punkte

Wir betrachten erneut das Verfahren der gefilterten Rückprojektion. Das Filter  $c_\gamma$  sei definiert durch

$$\mathcal{F}c_\gamma(\sigma) = \frac{1}{2}(2\pi)^{\frac{1}{2}-n} |\sigma|^{n-1} \mathcal{F}\Phi(\gamma^{-1}\sigma), \quad \sigma \in \mathbb{R},$$

mit einem Tiefpassfilter  $\Phi$ . Zeigen Sie für alle  $\rho > 0$ :

$$c_\gamma(\rho\sigma) = \rho^{-n} c_{\rho\gamma}(\sigma).$$

2. Aufgabe SWZ und semi-diskrete Operatoren

1 + 2 + 2 = 5 Punkte

Für jeden kompakten Operator  $A \in \mathcal{K}(X, Y)$  zwischen zwei Hilberträumen  $X$  und  $Y$  existiert die *Singularwertzerlegung*  $\{v_n, u_n; \sigma_n\}_{n \geq 0}$ , d.h. es existieren vollständige Orthonormalsysteme  $\{v_n\} \subset X$  bzw.  $\{u_n\} \subset Y$  für  $\mathcal{N}(A)^\perp$  bzw.  $\mathcal{N}(A^*)^\perp$ , und eine Folge positiver Zahlen  $\{\sigma_n\} \subset \mathbb{R}_+$  mit

$$Av_n = \sigma_n u_n \quad \text{und} \quad A^*u_n = \sigma_n v_n.$$

Seien nun  $X, Y$  komplexe Hilberträume und  $A \in \mathcal{K}(X, Y)$  mit singulärem System  $\{v_n, u_n; \sigma_n\}_{n \geq 0}$ . Zu  $A$  definieren wir den diskretisierten Operator  $A_D$  wie folgt:

$$A_D : X \rightarrow \mathbb{C}^N, \quad [A_D f]_n = (A f, \psi_n)_Y \quad \text{mit} \quad \psi_n \in Y \quad \text{für} \quad n = 1, \dots, N.$$

a) Zeigen Sie: Für alle  $f \in X$  gilt die Darstellung

$$A f = \sum_{n=1}^{\infty} \sigma_n (f, v_n)_X u_n.$$

b) Zeigen Sie, dass der adjungierte Operator  $A_D^* : \mathbb{C}^N \rightarrow X$  die folgende Gestalt hat:

$$A_D^* g = \sum_{n=1}^N g_n \sum_{m=1}^{\infty} \overline{(u_m, \psi_n)_Y} A^* u_m,$$

wobei  $g_n$  die  $n$ -te Komponente von  $g$  bezeichnet.

c) Zeigen Sie für die Matrix  $A_D A_D^*$  die Darstellung

$$A_D A_D^* = \left( \sum_{m=1}^{\infty} \sigma_m^2 (\psi_n, u_m)_Y \overline{(u_m, \psi_m)_Y} \right)_{n,m=1}^N.$$

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