

### 3 Pseudodifferential operators

Let  $0 < \rho \leq 1$ ,  $0 \leq \delta < 1$ ,  $X$  open  $\subset \mathbb{R}^n$ . A pseudodifferential operator is a Fourier integral operator  $A : C_0^\infty(X) \rightarrow \mathcal{D}'(X)$  of the form

$$(3.1) \quad Au(x) = \frac{1}{(2\pi)^n} \iint e^{i(x-y)\theta} a(x, y, \theta) u(y) dy d\theta, \quad u \in C_0^\infty(X),$$

where  $a \in S_{\rho, \delta}^m(X \times X \times \mathbb{R}^n)$ . We denote by  $L_{\rho, \delta}^m(X)$  the space of these operators and we say that  $A \in L_{\rho, \delta}^m(X)$  is of order  $\leq m$  and of type  $(\rho, \delta)$ .

**Example 3.1** If  $A$  is a differential operator on  $X$  of order  $\leq m$  with smooth coefficients, then  $A \in L_{1,0}^m(X)$ . In fact, if  $A = \sum_{|\alpha| \leq m} a_\alpha(x) D_x^\alpha$ ,  $a_\alpha \in C^\infty(X)$ , then by Fourier's inversion formula we get

$$Au(x) = \int e^{ix\xi} a(x, \xi) \hat{u}(\xi) \frac{d\xi}{(2\pi)^n} = \iint e^{i(x-y)\xi} a(x, \xi) u(y) dy \frac{d\xi}{(2\pi)^n},$$

$a(x, \xi) = \sum_{|\alpha| \leq m} a_\alpha(x) \xi^\alpha \in S_{1,0}^m(X \times \mathbb{R}^n)$ . Here the last integral first makes sense as an iterated one, but inserting  $\chi(\varepsilon\xi)$ ,  $\chi \in C_0^\infty$ ,  $\chi(0) = 1$  and letting  $\varepsilon$  tend to 0, we see that the distribution kernel of  $A$  is given by the oscillatory integral

$$K_A(x, y) = \int e^{i(x-y)\xi} a(x, \xi) \frac{d\xi}{(2\pi)^n}.$$

**Example 3.2** The inverse of  $(1 - \Delta) : \mathcal{S}(\mathbb{R}^n) \rightarrow \mathcal{S}(\mathbb{R}^n)$ , where  $\mathcal{S}(\mathbb{R}^n)$  is the Schwartz space of test functions and  $-\Delta = -\sum \frac{\partial^2}{\partial x_j^2} = \sum D_{x_j}^2$ , is given by

$$Au(x) = (1 - \Delta)^{-1} u(x) = \int e^{ix\xi} \frac{1}{(1 + \xi^2)} \hat{u}(\xi) \frac{d\xi}{(2\pi)^n} \quad (\xi^2 = \sum \xi_j^2).$$

Hence  $A \in L_{1,0}^{-2}(\mathbb{R}^n)$ , and it is not a differential operator. From our generalities on FIO's we get

- 1) If  $K_A \in \mathcal{S}(X \times X)$  is the distribution kernel of  $A \in L_{\rho, \delta}^m(X)$ , then  $\text{sing supp}(K_A) \subset \Delta(X \times X) \stackrel{\text{def}}{=} \{(x, x) \in X \times X\}$  ("the diagonal of  $X \times X$ "). In fact  $(x - y) \cdot \theta$  is a phase function and  $d_\theta((x - y) \cdot \theta)$  vanishes precisely when  $x = y$ .
- 2) Since  $d_{y, \theta}((x - y) \cdot \theta) \neq 0$  and  $d_{x, \theta}((x - y) \cdot \theta) \neq 0$  when  $\theta \neq 0$ , the pseudodifferential operators in  $L_{\rho, \delta}^m(X)$  are continuous  $C_0^\infty(X) \rightarrow C^\infty(X)$  and have (unique) continuous extensions  $\mathcal{E}'(X) \rightarrow \mathcal{D}'(X)$ . (We will not distinguish between these extensions and the original operators.)

# Introduction To Pseudodifferential Operators

**Man Wah Wong**



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