

Rempel, Stephan; Schulze, Bert-Wolfgang

Branching of asymptotics for elliptic operators on manifolds with edges. (English)

[Zbl 0654.58034](#)

Partial differential equations, Banach Cent. Publ. 19, 231-236 (1987).

[For the entire collection see [Zbl 0633.00011](#).]

The authors give a summary on their work on the asymptotic behaviour of solutions of elliptic equations on manifolds with edges. For more detailed information we refer to their papers [Math. Nachr. 105, 45-149 (1982; [Zbl 0544.35095](#)), Semin. Anal. 1984/85, 23-72 (1985; [Zbl 0595.31012](#)), Journ. "Équations Dériv. Partielles", St.-Jean-De-Monts 1984, Conf., No.5, 25 p. (1984; [Zbl 0598.35022](#)), Ann. Global Anal. Geom. 4, 137-223 (1986; [Zbl 0632.58032](#))], and to the paper of the second author, Math. Nachr. 136, 7-57 (1988), and we also mention two further papers which are announced: S. Rempel and B.-W. Schulze. Asymptotics for elliptic mixed boundary problems, and B.-W. Schulze, Regularity with continuous and branching asymptotics on manifolds with edges.

Reviewer: [N.Jacob](#)

MSC:

[58J32](#) Boundary value problems on manifolds

[58J60](#) Relations of PDEs with special manifold structures (Riemannian, Finsler, etc.)

Cited in **8** Documents

Keywords:

[Mellin symbols](#); [pseudo-differential operators](#); [singularities](#); [solutions of elliptic equations](#); [branching asymptotics on manifolds with edges](#)