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Intertwining functors and irreducibility of standard Harish-Chandra sheaves. (English)

Zbl 0760.22019

Harmonic analysis on reductive groups, Proc. Conf., Brunswick/ME (USA) 1989, Prog. Math. 101, 209-222 (1991).

[For the entire collection see [Zbl 0742.00061](#).]

The author sketches a proof of an irreducibility criterion for standard Harish-Chandra sheaves, similar to the one in [*B. Speh* and *D. A. Vogan jun.*, Acta Math. 145, 227-299 (1980; [Zbl 0457.22011](#))]. This result is part of a joint article to be published as a sequel to [*H. Hecht*, *D. Miličić*, *W. Schmidt*, and *J. A. Wolf*, Invent. Math. 90, 297-332 (1987; [Zbl 0699.22022](#))], by the same authors. The main idea of the proof consists of a reduction to the case of $SL(2, \mathbb{C})$.

Reviewer: [H.de Vries \(Nijmegen\)](#)

MSC:

[22E46](#) Semisimple Lie groups and their representations

[22E47](#) Representations of Lie and real algebraic groups: algebraic methods
(Verma modules, etc.)

Cited in **2** Reviews

Cited in **3** Documents

Keywords:

sheaf of differential operators; category of coherent \mathcal{D} -modules; irreducibility; Harish-Chandra sheaves