

TRANSMITTER, RECEIVER, TRANSMISSION METHOD, AND RECEPTION METHOD

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ABSTRACT

Provided is a transmitter which improves the flexibility of SRS resource allocation without increasing the amount of signaling for notifying the cyclic shift amount. In the transmitter, with
10 regard to each basic shift amount candidate group having a basic shift amount from 0 to $N-1$, a transmission control unit (206) specifies the actual shift amount imparted to a cyclic shift sequence used in scrambling a reference signal transmitted from each antenna port, said specification being performed based on a
15 table in which cyclic shift amount candidates correspond to each antenna port, and based on setting information transmitted from a base station (100). With regard to basic shift amount candidates for shift amount X , the table differentiates between an offset pattern comprising offset values for cyclic shift amount candidates
20 corresponding to each antenna port and an offset pattern corresponding to basic shift amount candidates of $X+N/2$.

Figure 6