```
\begin{array}{l} sig_m 1_p 2.bmp Superimposed levels and the corresponding received signals in the case of and. \\ U = \\ U = \\ U = \\ S[l] \\ l \in \\ \{0,1,\cdots,2^{mU}\} \\ U \\ M_t \\ N_t \\ M_t = \\ U = \\ U = \\ U = \\ U \\ S \end{array}
        \phi = \sum_{x \in X} s \in Smin \parallel x - s \parallel^2,
\begin{array}{l} X \\ \phi \\ 2^{mU} \\ 2^{mP} \\ \vdots \\ \overline{S}^e \\ \{\epsilon, -\epsilon\} \\ M = \\ M \\ p_i \\ i \in \\ \{1, 2, ..., M\} \\ p_i \\ i \in \\ \{1, 2, ..., M\} \\ p_i \\ i \in \\ \{1, 2, ..., M\} \\ q_{2i-1} = \\ \rho_i - \\ i \in \\ \{1, 2, ..., M\} \\ S = \\ \{q_i \mid i = \\ 1, 2, ..., 2M\} \\ M \\ M = \\ 2^{mU} \\ S^p \\ D(r) \\ q_1 \\ q = \\ q_{i+1} \\ D^2(r) \\ i \\ i + \\ 1 \\ i = \\ 2^{mU} \\ O \\ Q_{i+1} \\ D(r) \\ q_1 \\ q = \\ D(r) \\ r \in \\ \{q_1, ..., q_i\} \\ \Omega \\ n/(2^{mU}) \\ D(r) \\ r \setminus \\ \Omega \\ Q_{i+1} \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ 1 \\ D^2(r) \\ i \\ i + \\ D^2(r) \\ i \\ i \\ D^2(r) \\ i \\ i \\ D^2(r) \\ i \\ i \\ D^2(r) \\ i
```