621.396.2

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WiMAX

IEEE 802.16 *WiMAX*

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WiMAX
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. MathCad.
. 1 PHY
WiMAX,
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. 2. BER ,
QPSK, -

. 3. BER ,
BPSK -

. 1.

. 2 3 BER ,
QPSK BPSK

,
(BER)
(SNR).
/ Eb/N0,
Eb - , N0/2 -
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AWGN
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Alamouti (STBC),
2-

1- / 2- .
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Alamouti STBC .
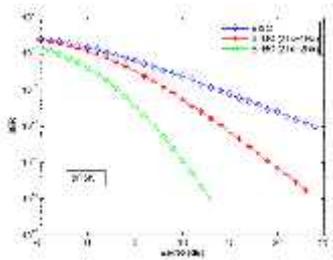
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. 4. BER BPSK
Alamouti STBC
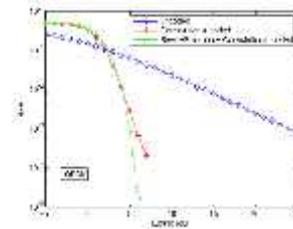
. : 1/2,
K = 7,
g0 = [1111001]
1, g1 = [1011011] 2.

. 5. BER QPSK
Alamouti STBC

. 6 7

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. 6. BER ,
BPSK

. 7. BER ,
QPSK

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, R-S
(n = 255; k = 239), Galois Field GF(28),
m = 8, -
. . 8 9

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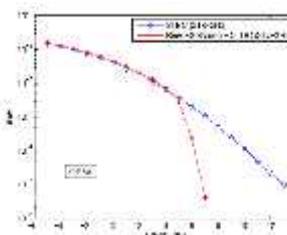-

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Alamouti STBC,
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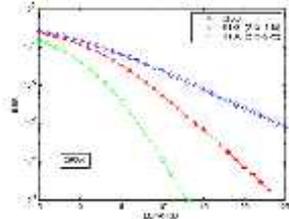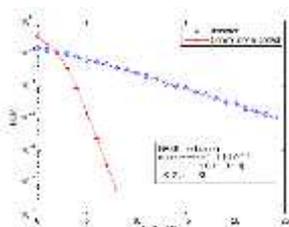
QPSK
BPSK ,

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OFDM.
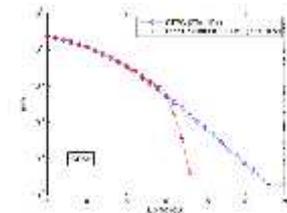
. 8. BER BPSK
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. 9. BER QPSK
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WiMAX PHY

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SNR.
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RESEARCH ANALYSIS OF DIFFERENT CODING METHODS AND SEPARATING WIMAX

L.V. Dakova

Analyzed and discussed aspects of research data channels at the physical layer IEEE 802.16 and presents the results of modeling the behavior of WiMAX in terms of the use of different technologies that improve the quality of the data link.
Keywords: *zamyranyya, coding, modulation.*