

Analysis of the performance of min sum decode algorithm in Gaussian channel for random matrices

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Require: $n \geq 0 \vee x \neq 0$

Ensure: $y = x^n$

$y \Leftarrow 1$

if $n < 0$ **then**

$X \Leftarrow 1/x$

$N \Leftarrow -n$

else

$X \Leftarrow x$

$N \Leftarrow n$

end if

while $N \neq 0$ **do**

if N is even **then**

$X \Leftarrow X \times X$

$N \Leftarrow N/2$

else $\{N \text{ is odd}\}$

$y \Leftarrow y \times X$

$N \Leftarrow N - 1$