TABLE OF LATTICES

ICHIRO SHIMADA AND DAVIDE CESARE VENIANI

This is the table of lattices $M_{10,3}^{144}, \ldots, N_{10,2048}^{0,274}$ that appear in Table 3.1 of the paper

"Enriques involutions on singular K3 surfaces of small discriminants".

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\mathbf{TABLE}

Name	Gram matrix
$M_{10.3}^{144}$	[2,1,2,1,0,2,0,0,1,3,1,0,0,0,2,0,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$N_{10,3}^{246}$	$[2,1,2]\oplus E_8$
$N_{10,4}^{244}$	$[2]\oplus [2]\oplus E_8$
$M_{10.5}^{92}$	[2,1,2,0,1,2,0,0,1,2,0,0,0,1,2,1,0,0,0,2,0,0,0,0
$M_{10.5}^{132}$	[2,1,2,1,0,2,0,0,1,2,1,0,0,0,2,0,0,0,0,1,2,0,0,0,0
$M_{10.5}^{242}$	$[2,1,3]\oplus E_8$
$M_{10,6}^{90}$	[2,1,2,0,1,2,0,0,1,2,0,0,0,1,2,0,0,0,1,2,1,0,0,0,0
$M^{242}_{10,6}$	$[2]\oplus [3]\oplus E_{ m S}$
$M^{112}_{10.7}$	[2,1,2,1,0,2,0,0,1,3,1,0,0,0,2,0,0,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$N_{10,7}^{144}$	[2,1,2,1,0,2,0,0,1,4,1,0,0,0,2,0,0,0,0,1,2,0,0,0,0,0,1,2,0,0,0,0
$N_{10.7}^{242}$	$[2,1,4] \oplus E_8$
$M_{10.8}^{84}$	[2,1,2,0,1,2,1,0,0,2,0,0,0,1,2,0,0,0,0,1,3,0,0,0,0,0,0,0,0,1,2,0,0,0,0,0,0,0,1,2,0,0,0,0
$M_{10.8}^{\overline{112}}$	[2,1,2,0,1,2,0,0,1,2,0,0,0,1,2,0,0,0,1,2,1,0,0,0,0
$N_{10.8}^{138}$	$A_3 \oplus E_7$
$M_{10,8}^{144}$	[2,1,2,1,0,2,1,0,0,2,0,0,0,1,2,0,0,0,1,2,0,0,0,1,2,0,0,0,0
$N^{146}_{10,8}$	$[2]\oplus D_9$
$M^{240}_{10,8}$	$[3,1,3]\oplus E_8$
$N^{242}_{10,8}$	$[2]\oplus [4]\oplus E_8$
$M_{10,9}^{60}$	[2,1,2,1,0,3,0,0,1,2,0,0,0,1,2,0,0,0,1,2,0,0,0,1,2,0,0,0,1,0,0,2,0,0,0,0
$M_{10,9}^{74}$	[2,1,3,0,1,2,1,0,0,2,0,0,0,1,2,0,0,0,1,2,0,0,0,1,2,0,0,0,0
$M_{10,9}^{80}$	[3,1,2,1,0,2,0,0,1,2,0,0,0,1,2,0,0,0,1,2,0,0,0,1,2,0,0,0,0
$M_{10.9}^{90}$	[2,1,2,0,1,2,1,0,0,2,0,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$M^{128}_{10.9}$	[2,1,2,0,1,2,0,0,1,2,0,0,0,1,3,0,0,0,1,2,0,0,0,0,1,3,1,0,0,0,0,0,0,0,0,0,0,0,0,0
$M_{10.9}^{132}$	$[2,1,2]\oplus[2,1,2,0,1,2,0,0,1,2,0,0,0,1,3,1,0,0,0,2,0,0,0,2,0,0,0,0,1,2,1,0,0,0,0$
$M_{10.9}^{240}$	$[3]\oplus [3]\oplus E_8$
$M_{10,9}^{242}$	$[2,1,5]\oplus E_8$
$N_{10,15}^{90}$	[2,1,4,1,0,2,0,0,1,2,0,0,0,1,2,0,0,0,1,2,1,0,0,0,0
$N_{10,15}^{92}$	$A_4\oplus E_6$

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Name	Gram matrix
$N_{10,15}^{112}$	[2,1,2,0,1,2,0,0,1,2,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$N_{10.15}^{132}$	$[2,1,2] \oplus [2,1,2,1,0,2,0,0,1,2,1,0,0,0,2,0,0,0,2,0,0,0,1,2,0,0,0,0$
$N_{10,15}^{144}$	[2,1,2,1,0,2,0,0,1,6,1,0,0,0,2,0,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$N^{240}_{10,15}$	$[4,1,4]\oplus E_8$
$N_{10,15}^{242}$	$[2,1,8]\oplus E_8$
$N_{10,23}^{74}$	[2,1,2,0,1,2,0,0,0,0,0,0,0,1,2,1,0,0,0,0,
$N^{84}_{10,23}$	[2,1,2,0,1,2,1,0,0,2,1,0,0,0,2,0,0,0,0,1,2,0,0,0,0
$N_{10.23}^{112}$	[2,1,2,1,0,2,0,0,1,4,1,0,0,0,2,0,0,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$N_{10.23}^{132}$	[2,1,2,1,0,2,0,0,1,2,1,0,0,0,2,0,0,0,0,1,2,0,0,0,0
$N_{10,23}^{144}$	[2,1,2,1,0,2,0,0,1,8,1,0,0,0,2,0,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$N^{240}_{10.23}$	$[4,1,6]\oplus E_8$
$N_{10.23}^{242}$	$[2,1,12]\oplus E_8$
$N_{10,31}^{60}$	[2,1,2,1,0,2,0,0,1,2,1,0,0,0,4,0,0,0,1,2,0,0,0,1,2,0,0,0,1,2,0,0,0,0,0
$N_{10,31}^{72}$	[2,1,4,0,2,4,0,0,1,2,0,0,0,1,2,1,0,0,0,0,2,0,0,0,0,0
$N_{10,31}^{86}$	[2,1,2,0,1,2,0,0,1,2,0,0,0,1,2,1,0,0,0,0,
$N^{90}_{10,31}$	[2,1,2,0,1,2,0,0,1,2,0,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$N^{112}_{10.31}$	[2,1,2,0,1,2,1,0,0,4,0,0,1,2,0,0,0,0,1,2,0,0,0,0,1,2,-1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,1,2,0,0,0,1,0,0,0,0
$N_{10,31}^{128}$	[2,1,2,0,1,2,1,0,0,2,0,0,0,1,2,0,0,0,1,2,1,0,0,0,1,2,1,0,0,0,0
$N_{10,31}^{144}$	[2,1,2,0,1,2,0,0,1,2,0,0,0,1,2,0,0,0,0,1,2,0,0,0,0
$N_{10,31}^{240}$	$[4,1,8] \oplus E_8$
$N_{10,31}^{242}$	$[2,1,16]\oplus E_8$
$N_{10,1024}^{0,308}$	[4,2,4,0,2,4,0,0,1,4,0,0,0,2,4,2,0,0,0,0,4,2,0,0,0,0,4,2,0,0,0,0
$N_{10.1792}^{0,274}$	[4,2,4,0,2,4,0,0,1,4,0,0,0,1,4,2,0,0,0,0,4,0,0,0,0,0,0,0,0,0,0,0,0,0
$N_{10.2048}^{0,210}$	[4,2,4,2,0,4,2,0,0,4,0,0,0,2,4,0,0,0,2,4,0,0,0,2,4,0,0,0,0
$N_{10,2048}^{0,250}$	[4,2,4,1,0,4,0,0,1,4,0,0,0,2,4,0,0,0,2,4,0,0,0,2,4,0,0,0,0
$N_{10,2048}^{0,274}$	$[4] \oplus [4,2,4,0,2,4,0,0,2,4,1,0,0,0,4,0,0,0,2,4,0,0,0,2,4,0,0,0,0,2,4,1,0,0,0,-2,0,0,4,0,0,0,0,0,0,0,2,4]$

Table 0.1 - continued from previous page

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