

Errata to the Thesis: The Relationship between (16, 6, 3)-Balanced Incomplete Block Designs and (25, 12) Self-Orthogonal Codes

Navid Nasr Esfahani

page 29, Table 3.23

“Contains 3 Designs” should be “Contains 6 designs”.

page 55, Table 5.25

“Contains 3 Designs” should be “Contains 6 designs”.

pages 57-58, Table 5.29

The correct value for the number of designs $C_{21}, C_{37}, C_{38}, C_{42}, C_{68}$ should be as following:

Code	Dim.	# of Designs	Code	Dim.	# of Designs
C_{21}	11	6	C_{42}	12	2153
C_{37}	12	862	C_{68}	12	6
C_{38}	12	1050			

Table 1: Corrected rows on Table 5.29: Number of Non-Isomorphic (16,6,3) Designs in Dimension 12 Self-Orthogonal (25,12) Codes

page 62, last paragraph, 4th line

This is not an error. Just to make the sentence easier to understand “For the case of $\lambda = 3$, each code of dimension 12 which contains a design has ...” should be “For the case of $\lambda = 3$, each code of dimension 12 which contains a design has ...”

page 64, Table 6.1

The last row should be:

λ	# of Dsgn.s	# of Codes capable of having Dsgn.s	Avg. Dsgn.s per Code
3	18920	171	$\frac{19348}{171}$ *

Table 2: Corrected last row of Table 6.1: Average number of designs per code