

Errata: Lattice theory, circular statistics and polynomial phase signals

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1. Page 63, final paragraph. It is claimed that the lattices $V_{n/m}^*$ have an *obtuse superbasis*, i.e. they are of *Voronoi's first type*. This is false. Cases can be found where the Selling parameters of these lattices are positive.
2. Section 4.2.2, page 57. It is stated that

A generator matrix for $V_{n/m}^*$ is easily derived as any n columns of the $N \times N$ orthogonal projection matrix

$$\mathbf{Q} = \mathbf{I} - \mathbf{X}(\mathbf{X}^\dagger \mathbf{X})^{-1} \mathbf{X}^\dagger. \quad (4.2.12)$$

This is not quite correct. You must take n *consecutive* columns of the generator matrix.

3. Page 152, third paragraph. It is stated that the K -best algorithm requires $O(K^2 N^2 \log K)$ operations. This should read $O(K^2 N \log K)$ operations.
4. The terms “unwrapped mean” and “unwrapped variance” also go by the name “intrinsic mean” and “intrinsic variance” in the literature [???]. I was unfortunately unaware of this at the time. This omission was amended in the paper [?].
5. Page 120. The term n in the formula for the elements on the inverse Hilbert matrix should be replaced by $m + 1$.