Description

Description: R implementation of Low Walsh Figure of Merit Sequence based on Niederreiter-Xing Sequence.

Details

Porting to R by Mutsuo Saito. The R version does not return coordinate value zero, but returns value very near to zero, $2^{-64}$.

Acknowledgment

The development of this code is partially supported by JST CREST.

Reference


Examples

```r
srange <- lowWAFOMNX.dimMinMax()
mrange <- lowWAFOMNX.dim2MinMax(srange[1])
points <- lowWAFOMNX.points(dimR=srange[1], dimF2=mrange[1])
points <- lowWAFOMNX.points(dimR=srange[1], dimF2=mrange[1], digitalShift=TRUE)
```
**Description**

get minimum and maximum F2 dimension number.

**Usage**

lowWAFOMNX.dimF2MinMax(dimR)

**Arguments**

dimR dimension.

**Value**

supported minimum and maximum F2 dimension number

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**Description**

get minimum and maximum dimension number of Low WAFOM Niederreiter-Xing Sequence

**Usage**

lowWAFOMNX.dimMinMax()

**Value**

supported minimum and maximum dimension number.
**lowWAFOMNX.points**

get points from Low WAFOM Niederreiter-Xing SobolSequence

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**Description**

This R version does not return coordinate value zero, but returns value very near to zero, $2^{-64}$.

**Usage**

lowWAFOMNX.points(dimR, dimF2 = 10, digitalShift = FALSE)

**Arguments**

- dimR: dimension.
- dimF2: F2-dimension of each element.
- digitalShift: use digital shift or not.

**Value**

matrix of points where every row contains dimR dimensional point.
Index

LowWAFOMNX (LowWAFOMNX-package), 2
LowWAFOMNX-package, 2
lowWAFOMNX.dimF2MinMax, 3
lowWAFOMNX.dimMinMax, 3
lowWAFOMNX.points, 4