|  |  |
| --- | --- |
|  |  |
|  |  |

|  |  |
| --- | --- |
|  |  |
|  |  |

|  |  |
| --- | --- |
|  |  |
|  |  |

|  |  |
| --- | --- |
|  |  |
|  |  |

Level 3

|  |  |
| --- | --- |
|  |  |
|  |  |

|  |  |
| --- | --- |
|  |  |
|  |  |

Level 2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | |  | | | |
|  |  |
|  | |  |  |
|  |  |
|  | | | |  |  |  | |
|  |  |
|  | |  |  |
|  |  |

HODLR matrix level 3

Level 1

|  |  |
| --- | --- |
|  |  |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| T11 |  |  |  |
| T12 | T22 |  |  |
| T13 | T23 | T33 |  |
| T14 | T24 | T34 | T44 |

|  |
| --- |
| T12 |

K21

nb

K21

nb

|  |
| --- |
| V12 |

nb

|  |
| --- |
| U12 |

nb

SVD low-rank   
approximation

Off-Diagonal Tile