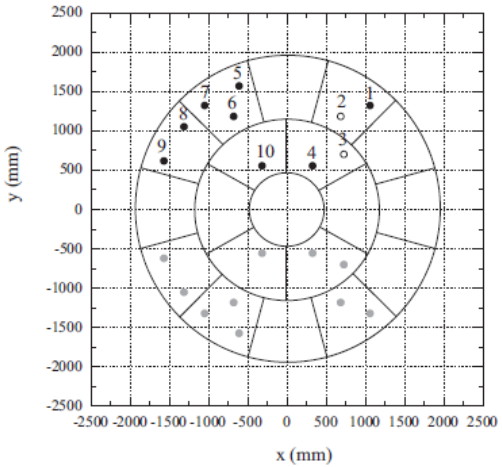
望遠鏡構造進捗状況

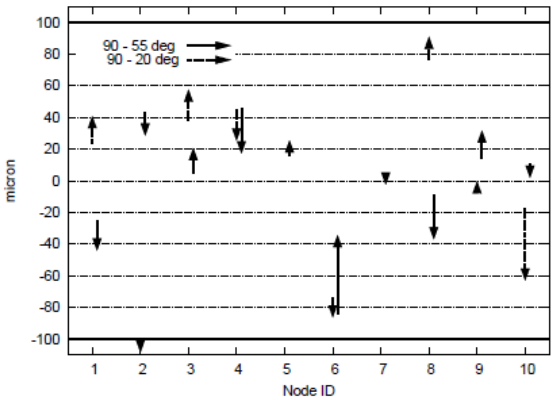
2010/9/17

栗田光樹夫
@京大

6月5日まで


FARO


y (mm)
x (mm)
2500
2000
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
-2500 -2000 -1500 -1000 -500 0 500 1000 1500 2000 2500
1
2
3
4
5
6
7
8
9
10

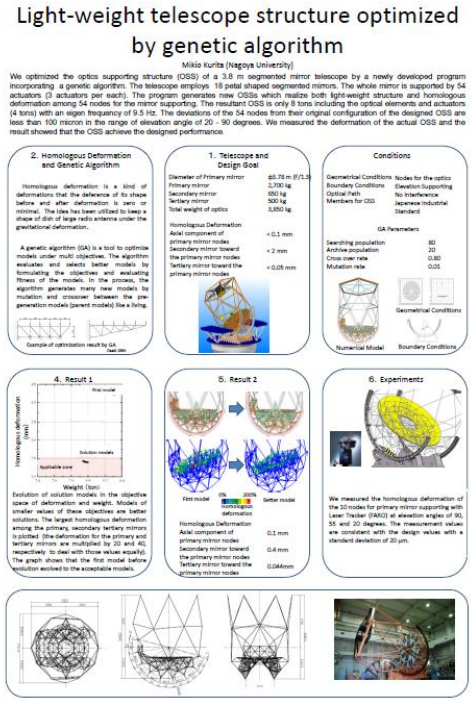

90 - 55 deg
90 - 20 deg
micron
Node ID
100
80
60
40
20
0
-20
-40
-60
-80
-100
1
2
3
4
5
6
7
8
9
10

SPIE

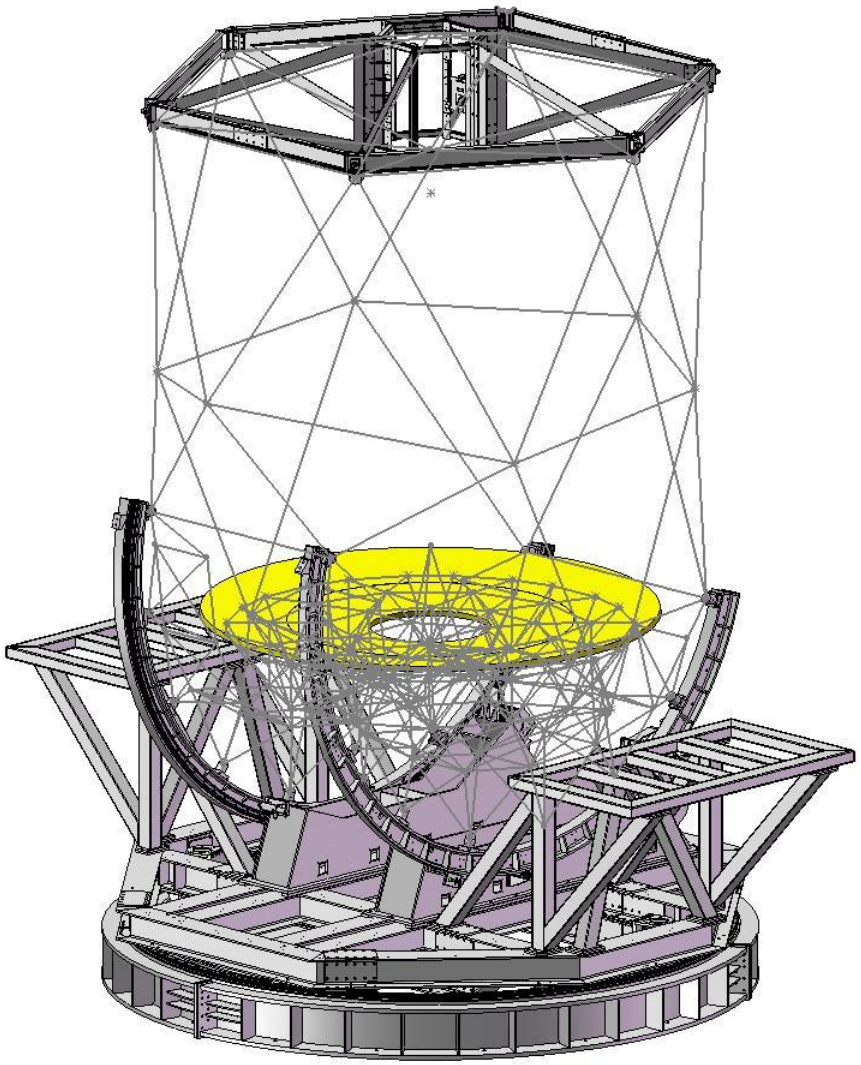
Light-weight telescope structure optimized by genetic algorithm

Mikio Kurita[a], Hiroshi Ohmori[b], Masashi Kunda[c], Hiroaki Kawamura [d], Noriaki Noda[e], Takayuki Seki[f], Yuji Nishimura[f], Michitoshi Yoshida[g,i], Shuji Sato[a], and Tetsuya Nagata[h]

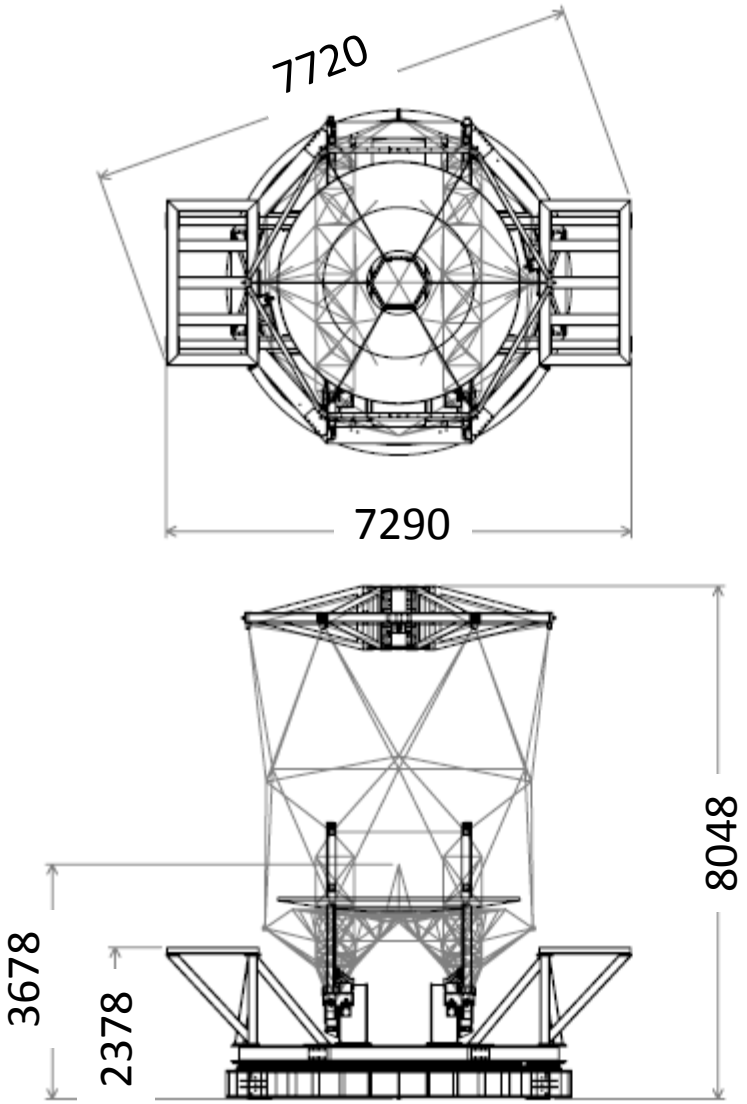
- Society of Photo-Optical Instrumentation Engineers
  光学装置学会で報告

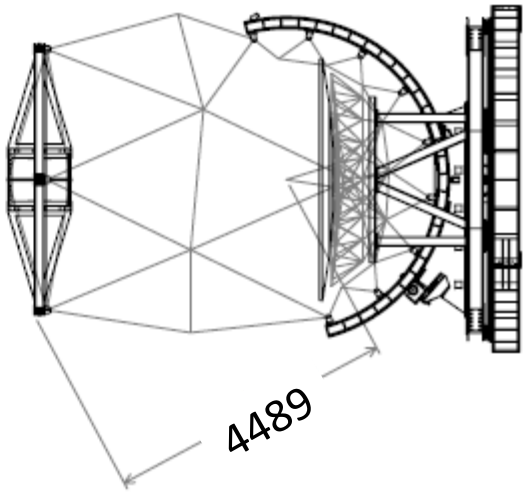


方位軸の設計



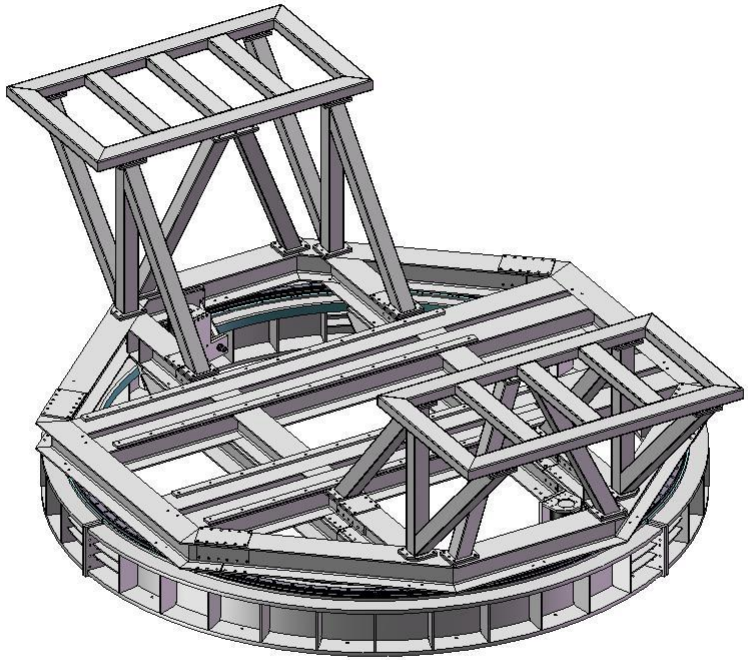
方位軸の設計

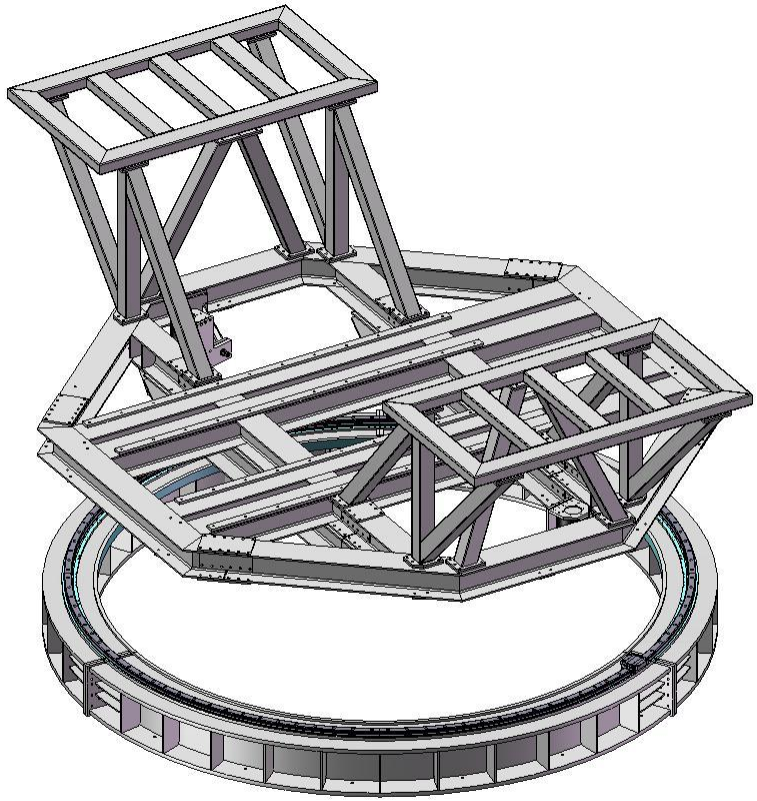




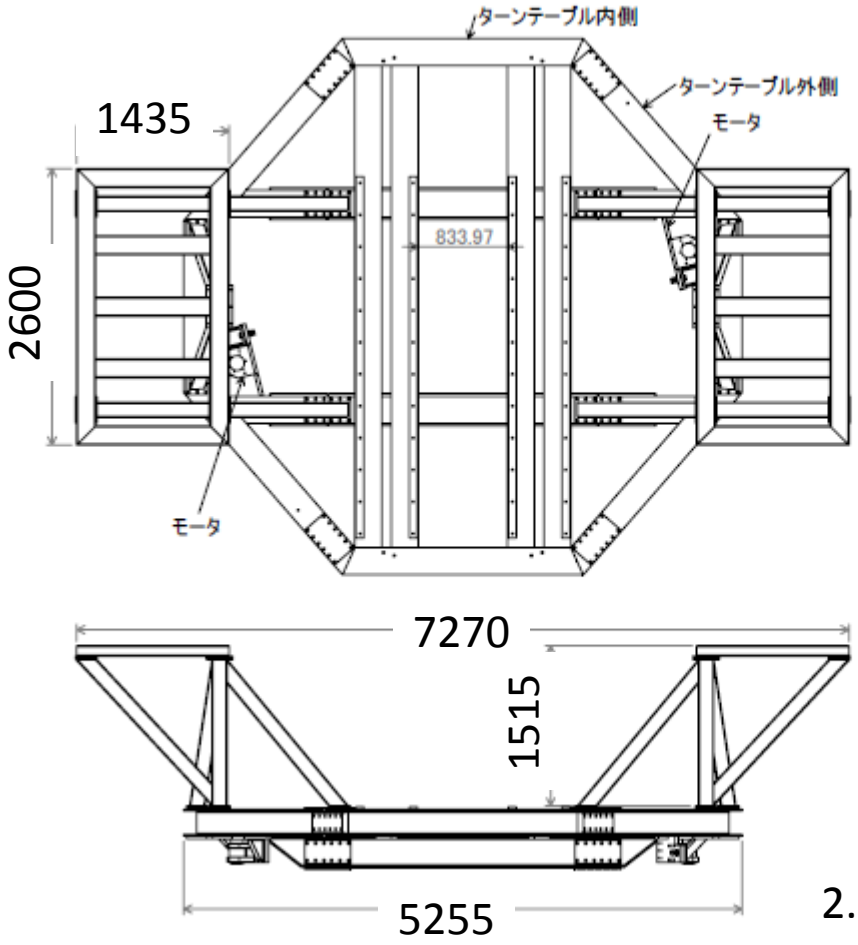
高度	8トン
方位	6.2トン
ベース	5.8トン
合計	20トン

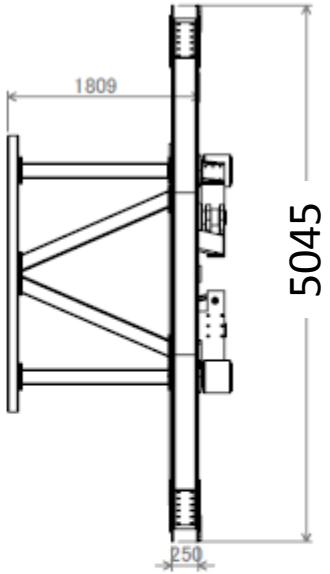
方位構造の設計





方位回転部

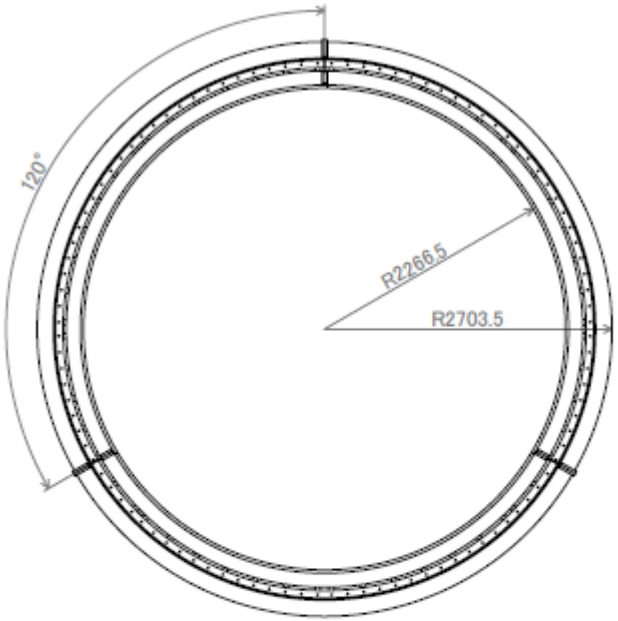


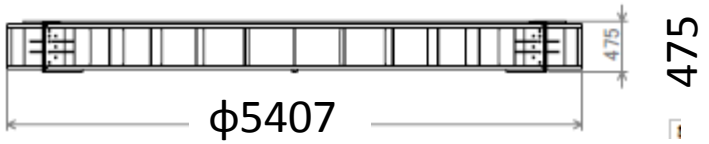


2.9 + 0.75 × 2 + 0.9 × 2 = 6.2 トン

ベース

2.7 × 3 = 8 トン





475

ナスミス台