

## Per-file Report

File: Front\_EE-1\_1\_3000x.tif

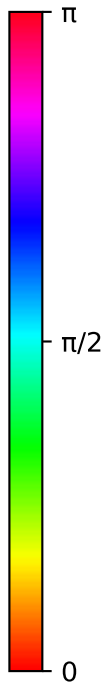
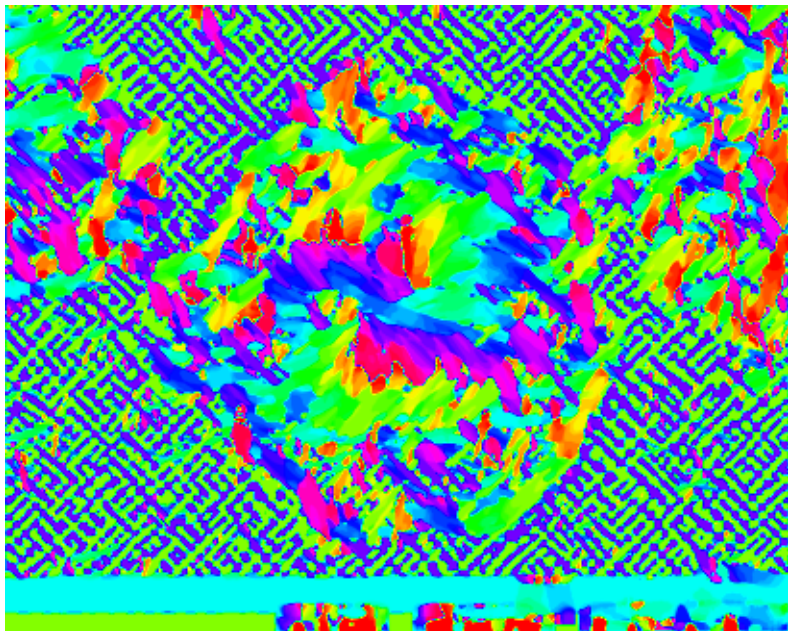
Pattern: Clockwise

n\_vectors: 168 | cw\_frac: 0.647 | acw\_frac: 0.353 | div\_frac: 1.000

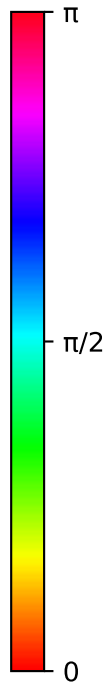
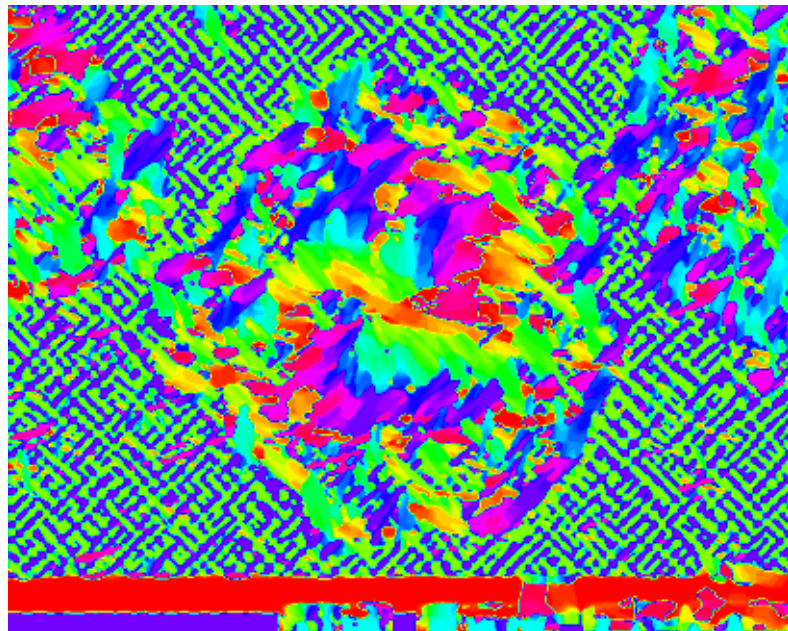
Rotation ( $\phi_{\perp \rightarrow \text{horizontal}}$ ): 34.21° | Center=(643,538)

# Gabor angle maps (original, not rotated)

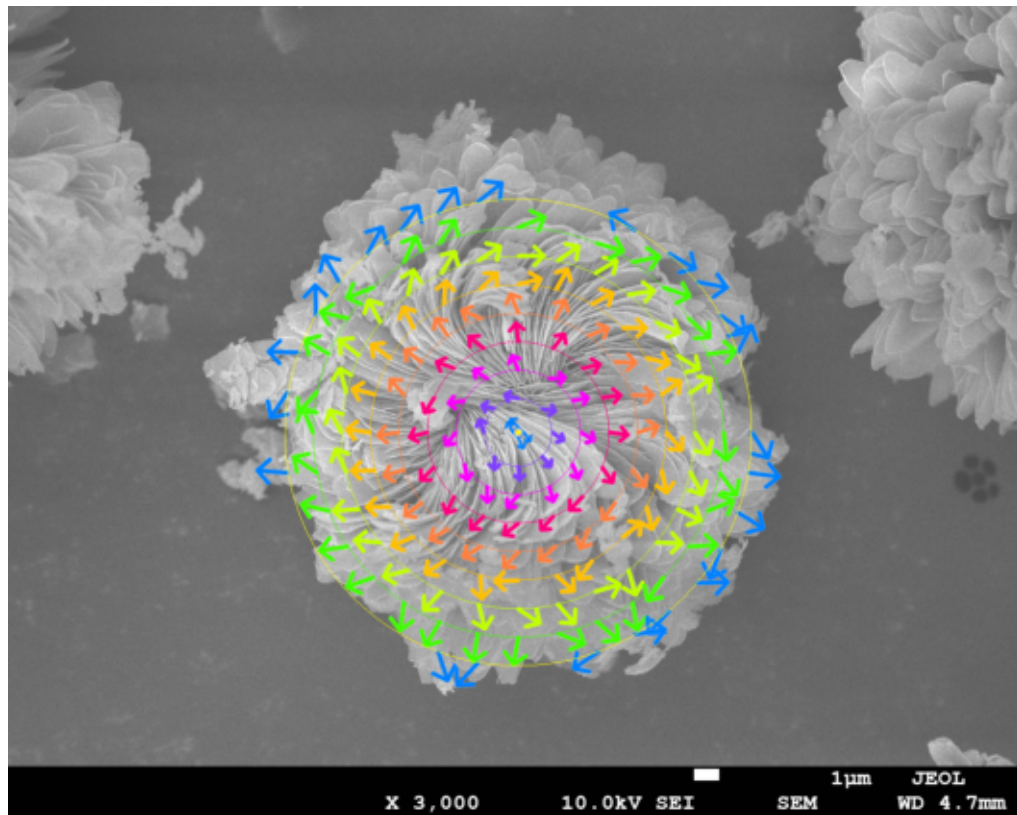
## Dominant Tangent (0→ $\pi$ )



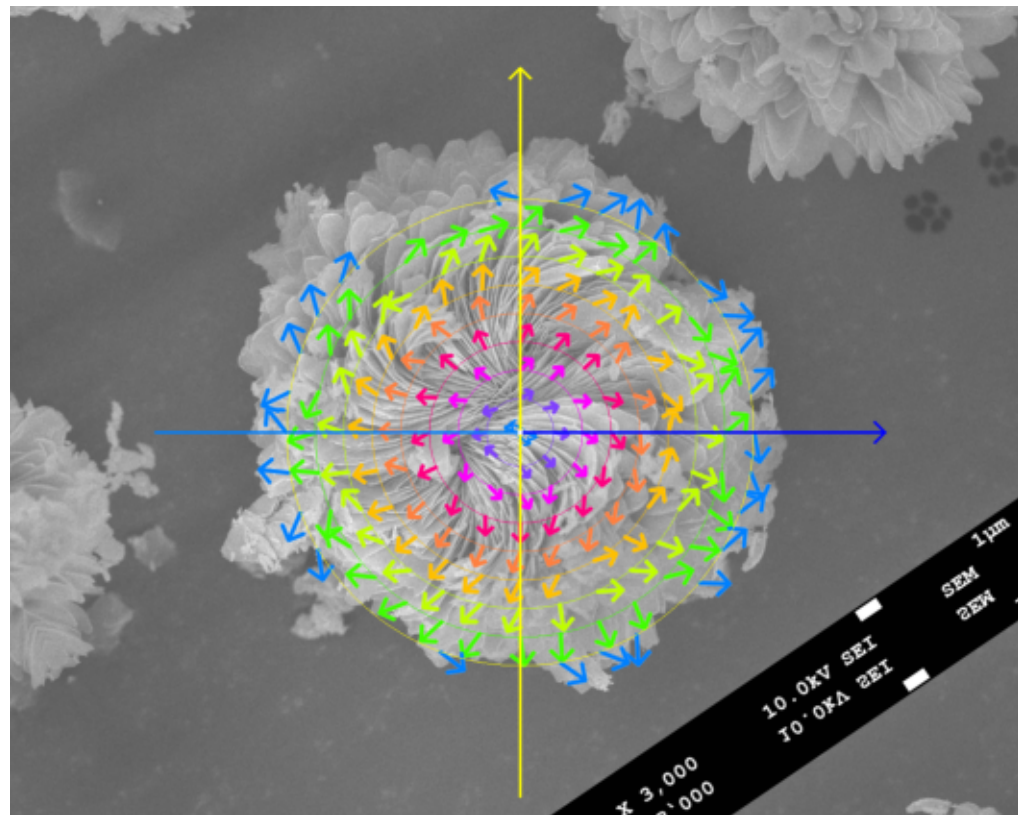
## Dominant Normal (0→ $\pi$ )



Before rotation



After rotation (Code A)  
(angle=34.21°)



# Ring coordinates + Angle( $\alpha'$ ) + Pattern (page 1/6)

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
1	(7.00, 0.00)	-26.09	Clockwise
1	(0.00, -7.00)	58.86	Anticlockwise
1	(-7.00, 0.00)	-31.99	Clockwise
1	(0.00, 7.00)	73.30	Anticlockwise
2	(43.00, 0.00)	-11.86	Clockwise
2	(30.00, -30.00)	0.74	Anticlockwise
2	(0.00, -43.00)	41.53	Anticlockwise
2	(-30.00, -30.00)	-85.27	Clockwise
2	(-43.00, 0.00)	15.22	Anticlockwise
2	(-30.00, 30.00)	62.06	Anticlockwise
2	(0.00, 43.00)	-60.59	Clockwise
2	(30.00, 30.00)	-34.03	Clockwise
3	(79.00, 0.00)	-32.68	Clockwise
3	(68.00, -40.00)	-14.66	Clockwise
3	(39.00, -68.00)	-38.60	Clockwise
3	(0.00, -79.00)	35.83	Anticlockwise
3	(-39.00, -68.00)	73.07	Anticlockwise
3	(-68.00, -40.00)	54.42	Anticlockwise
3	(-79.00, 0.00)	32.65	Anticlockwise
3	(-68.00, 40.00)	26.47	Anticlockwise
3	(-39.00, 68.00)	28.34	Anticlockwise
3	(0.00, 79.00)	-47.92	Clockwise
3	(39.00, 68.00)	-15.05	Clockwise
3	(68.00, 40.00)	-32.32	Clockwise
4	(115.00, 0.00)	-53.86	Clockwise
4	(106.00, -44.00)	-76.14	Clockwise
4	(81.00, -81.00)	-50.42	Clockwise
4	(44.00, -106.00)	-39.30	Clockwise
4	(0.00, -115.00)	0.98	Anticlockwise
4	(-44.00, -106.00)	22.49	Anticlockwise

# Ring coordinates + Angle( $\alpha'$ ) + Pattern (page 2/6)

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
4	(-81.00, -81.00)	30.36	Anticlockwise
4	(-106.00, -44.00)	3.77	Anticlockwise
4	(-115.00, 0.00)	30.86	Anticlockwise
4	(-106.00, 44.00)	20.19	Anticlockwise
4	(-81.00, 81.00)	5.29	Anticlockwise
4	(-44.00, 106.00)	3.23	Anticlockwise
4	(0.00, 115.00)	-31.70	Clockwise
4	(44.00, 106.00)	-20.05	Clockwise
4	(81.00, 81.00)	-1.32	Clockwise
4	(106.00, 44.00)	-38.69	Clockwise
5	(151.00, 0.00)	-85.20	Clockwise
5	(144.00, -47.00)	-62.56	Clockwise
5	(122.00, -89.00)	-65.48	Clockwise
5	(89.00, -122.00)	-45.16	Clockwise
5	(47.00, -144.00)	-44.30	Clockwise
5	(0.00, -151.00)	-23.29	Clockwise
5	(-47.00, -144.00)	-4.18	Clockwise
5	(-89.00, -122.00)	1.75	Anticlockwise
5	(-122.00, -89.00)	8.87	Anticlockwise
5	(-144.00, -47.00)	-34.52	Clockwise
5	(-151.00, 0.00)	-4.60	Clockwise
5	(-144.00, 47.00)	3.15	Anticlockwise
5	(-122.00, 89.00)	29.65	Anticlockwise
5	(-89.00, 122.00)	19.43	Anticlockwise
5	(-47.00, 144.00)	-6.98	Clockwise
5	(0.00, 151.00)	-30.28	Clockwise
5	(47.00, 144.00)	-38.79	Clockwise
5	(89.00, 122.00)	-20.81	Clockwise
5	(122.00, 89.00)	26.72	Anticlockwise
5	(144.00, 47.00)	-34.87	Clockwise

# Ring coordinates + Angle( $\alpha'$ ) + Pattern (page 3/6)

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
6	(187.00, 0.00)	76.09	Anticlockwise
6	(181.00, -48.00)	85.29	Anticlockwise
6	(162.00, -94.00)	81.94	Anticlockwise
6	(132.00, -132.00)	20.20	Anticlockwise
6	(93.00, -162.00)	78.63	Anticlockwise
6	(48.00, -181.00)	-42.01	Clockwise
6	(0.00, -187.00)	-26.84	Clockwise
6	(-48.00, -181.00)	-35.20	Clockwise
6	(-93.00, -162.00)	-14.08	Clockwise
6	(-132.00, -132.00)	-8.57	Clockwise
6	(-162.00, -94.00)	-13.63	Clockwise
6	(-181.00, -48.00)	-3.41	Clockwise
6	(-187.00, 0.00)	-16.13	Clockwise
6	(-181.00, 48.00)	-20.53	Clockwise
6	(-162.00, 94.00)	-37.47	Clockwise
6	(-132.00, 132.00)	-70.02	Clockwise
6	(-94.00, 162.00)	-20.50	Clockwise
6	(-48.00, 181.00)	-16.35	Clockwise
6	(0.00, 187.00)	-48.99	Clockwise
6	(48.00, 181.00)	-49.25	Clockwise
6	(93.00, 162.00)	-41.22	Clockwise
6	(132.00, 132.00)	22.76	Anticlockwise
6	(162.00, 94.00)	-41.88	Clockwise
6	(181.00, 48.00)	-55.34	Clockwise
7	(223.00, 0.00)	-16.60	Clockwise
7	(217.00, -50.00)	-9.40	Clockwise
7	(201.00, -97.00)	73.36	Anticlockwise
7	(174.00, -139.00)	20.86	Anticlockwise
7	(139.00, -174.00)	48.18	Anticlockwise
7	(97.00, -201.00)	68.08	Anticlockwise

# Ring coordinates + Angle( $\alpha'$ ) + Pattern (page 4/6)

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
7	(50.00, -217.00)	-4.37	Clockwise
7	(0.00, -223.00)	-29.24	Clockwise
7	(-50.00, -217.00)	-34.25	Clockwise
7	(-97.00, -201.00)	-25.46	Clockwise
7	(-139.00, -174.00)	-45.61	Clockwise
7	(-174.00, -139.00)	-61.12	Clockwise
7	(-201.00, -97.00)	-71.88	Clockwise
7	(-217.00, -50.00)	-6.06	Clockwise
7	(-223.00, 0.00)	-20.12	Clockwise
7	(-217.00, 50.00)	-58.96	Clockwise
7	(-201.00, 97.00)	-42.46	Clockwise
7	(-174.00, 139.00)	-59.12	Clockwise
7	(-139.00, 174.00)	77.13	Anticlockwise
7	(-97.00, 201.00)	-48.93	Clockwise
7	(-50.00, 217.00)	-31.54	Clockwise
7	(0.00, 223.00)	-36.21	Clockwise
7	(50.00, 217.00)	-60.50	Clockwise
7	(97.00, 201.00)	-51.94	Clockwise
7	(139.00, 174.00)	-4.91	Clockwise
7	(174.00, 139.00)	-7.34	Clockwise
7	(201.00, 97.00)	-47.74	Clockwise
7	(217.00, 50.00)	27.32	Anticlockwise
8	(259.00, 0.00)	39.05	Anticlockwise
8	(254.00, -51.00)	-73.74	Clockwise
8	(239.00, -99.00)	-13.78	Clockwise
8	(215.00, -144.00)	26.27	Anticlockwise
8	(183.00, -183.00)	59.55	Anticlockwise
8	(144.00, -215.00)	-11.52	Clockwise
8	(99.00, -239.00)	3.74	Anticlockwise
8	(51.00, -254.00)	-8.02	Clockwise

# Ring coordinates + Angle( $\alpha'$ ) + Pattern (page 5/6)

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
8	(0.00, -259.00)	8.41	Anticlockwise
8	(-51.00, -254.00)	-25.14	Clockwise
8	(-99.00, -239.00)	-25.14	Clockwise
8	(-144.00, -215.00)	-34.58	Clockwise
8	(-183.00, -183.00)	-51.80	Clockwise
8	(-215.00, -144.00)	-66.31	Clockwise
8	(-239.00, -99.00)	59.67	Anticlockwise
8	(-254.00, -51.00)	-16.47	Clockwise
8	(-259.00, 0.00)	18.27	Anticlockwise
8	(-254.00, 51.00)	73.40	Anticlockwise
8	(-239.00, 99.00)	-60.67	Clockwise
8	(-215.00, 144.00)	-55.25	Clockwise
8	(-144.00, 215.00)	-71.16	Clockwise
8	(-99.00, 238.00)	-85.51	Clockwise
8	(-51.00, 254.00)	-84.92	Clockwise
8	(0.00, 259.00)	-47.10	Clockwise
8	(51.00, 254.00)	-64.91	Clockwise
8	(99.00, 239.00)	-74.67	Clockwise
8	(144.00, 215.00)	-15.29	Clockwise
8	(215.00, 144.00)	-83.79	Clockwise
8	(239.00, 99.00)	-43.26	Clockwise
8	(254.00, 51.00)	45.75	Anticlockwise
9	(295.00, 0.00)	-80.05	Clockwise
9	(291.00, -51.00)	-57.88	Clockwise
9	(277.00, -101.00)	57.65	Anticlockwise
9	(255.00, -148.00)	70.53	Anticlockwise
9	(226.00, -190.00)	37.96	Anticlockwise
9	(147.00, -255.00)	-27.01	Clockwise
9	(101.00, -277.00)	48.63	Anticlockwise
9	(51.00, -291.00)	44.30	Anticlockwise

# Ring coordinates + Angle( $\alpha'$ ) + Pattern (page 6/6)

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
9	(-101.00, -277.00)	72.93	Anticlockwise
9	(-255.00, -148.00)	68.65	Anticlockwise
9	(-277.00, -101.00)	47.15	Anticlockwise
9	(-291.00, -51.00)	-16.43	Clockwise
9	(-295.00, 0.00)	-51.18	Clockwise
9	(-291.00, 51.00)	36.74	Anticlockwise
9	(-277.00, 101.00)	-46.11	Clockwise
9	(-255.00, 148.00)	-43.92	Clockwise
9	(-226.00, 190.00)	-67.06	Clockwise
9	(0.00, 295.00)	73.48	Anticlockwise
9	(51.00, 291.00)	-61.10	Clockwise
9	(101.00, 277.00)	-38.35	Clockwise
9	(147.00, 255.00)	21.89	Anticlockwise
9	(189.00, 225.00)	50.38	Anticlockwise
9	(226.00, 190.00)	-69.81	Clockwise
9	(255.00, 148.00)	-33.78	Clockwise
9	(277.00, 101.00)	29.11	Anticlockwise
9	(291.00, 51.00)	36.66	Anticlockwise
SUMMARY	n_vectors=168	nan	Clockwise