

## Per-file Report

File: Front\_EE-1\_4\_3000x.bmp

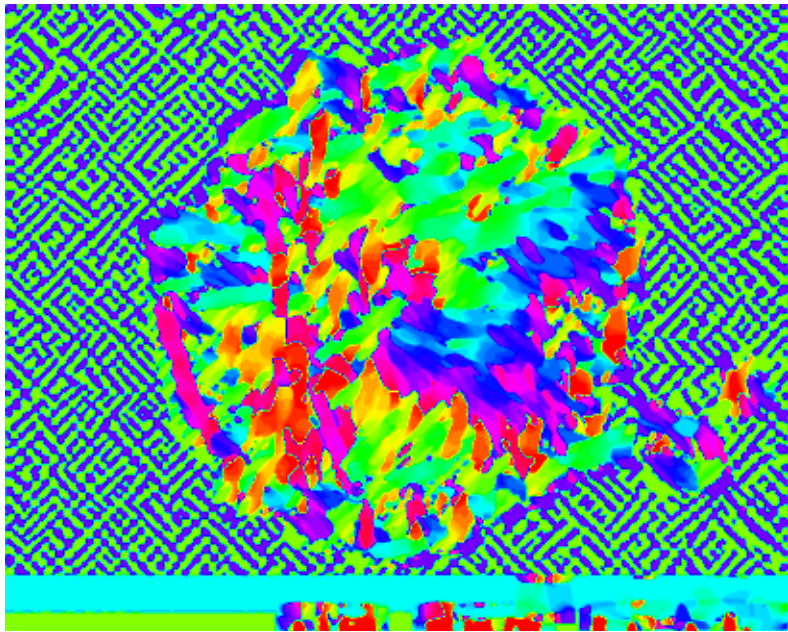
Pattern: Clockwise

n\_vectors: 179 | cw\_frac: 0.615 | acw\_frac: 0.385 | div\_frac: 1.000

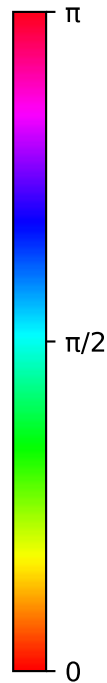
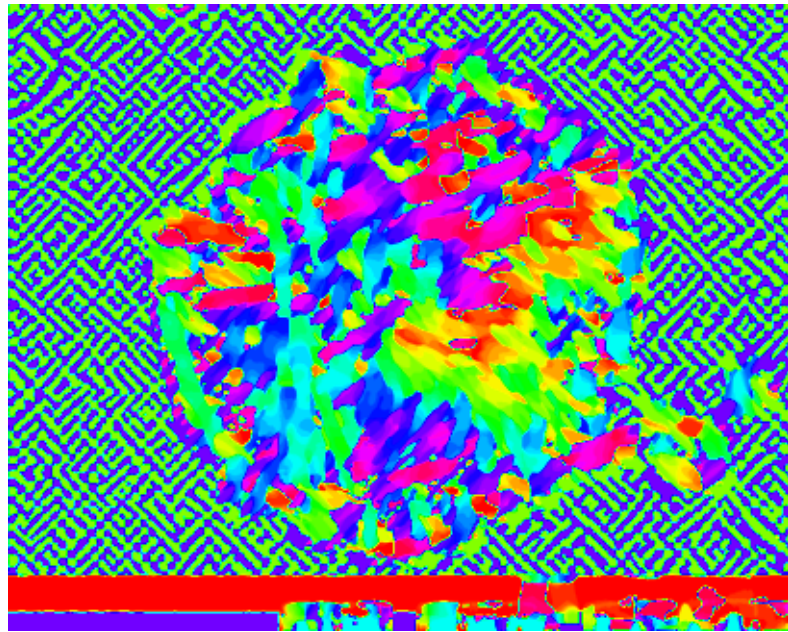
Rotation ( $\phi_{\perp \rightarrow \text{horizontal}}$ ): 63.83° | Center=(651,495)

# Gabor angle maps (original, not rotated)

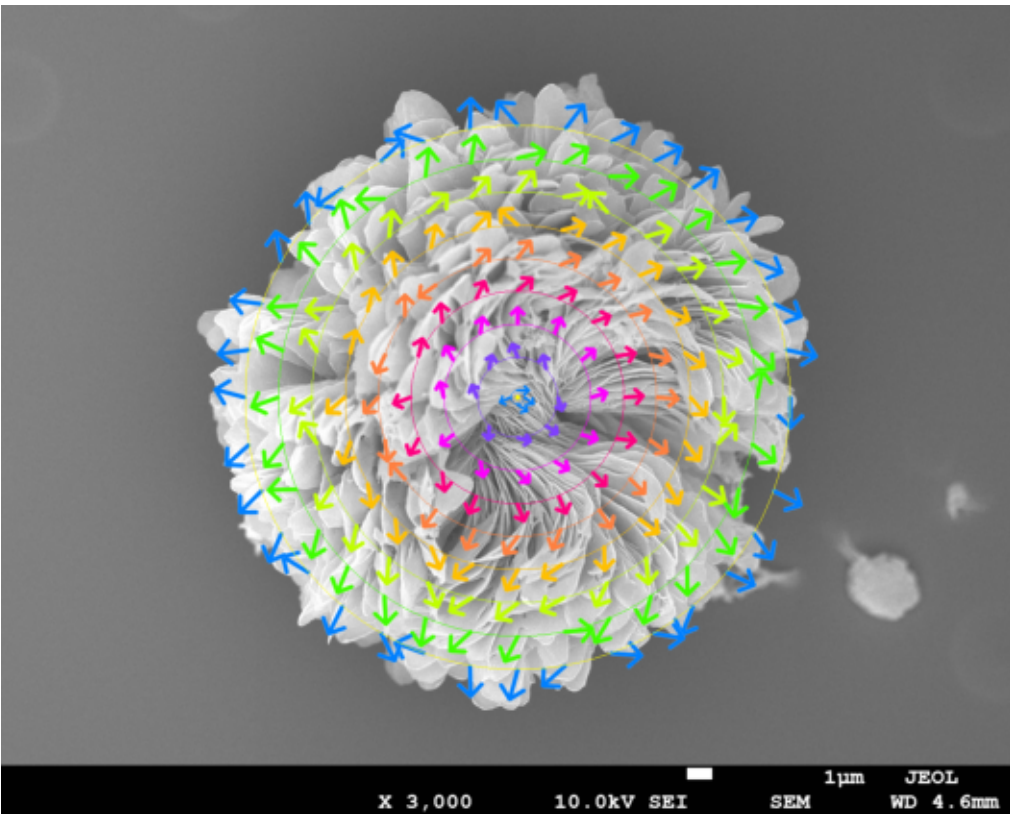
## Dominant Tangent (0→ $\pi$ )



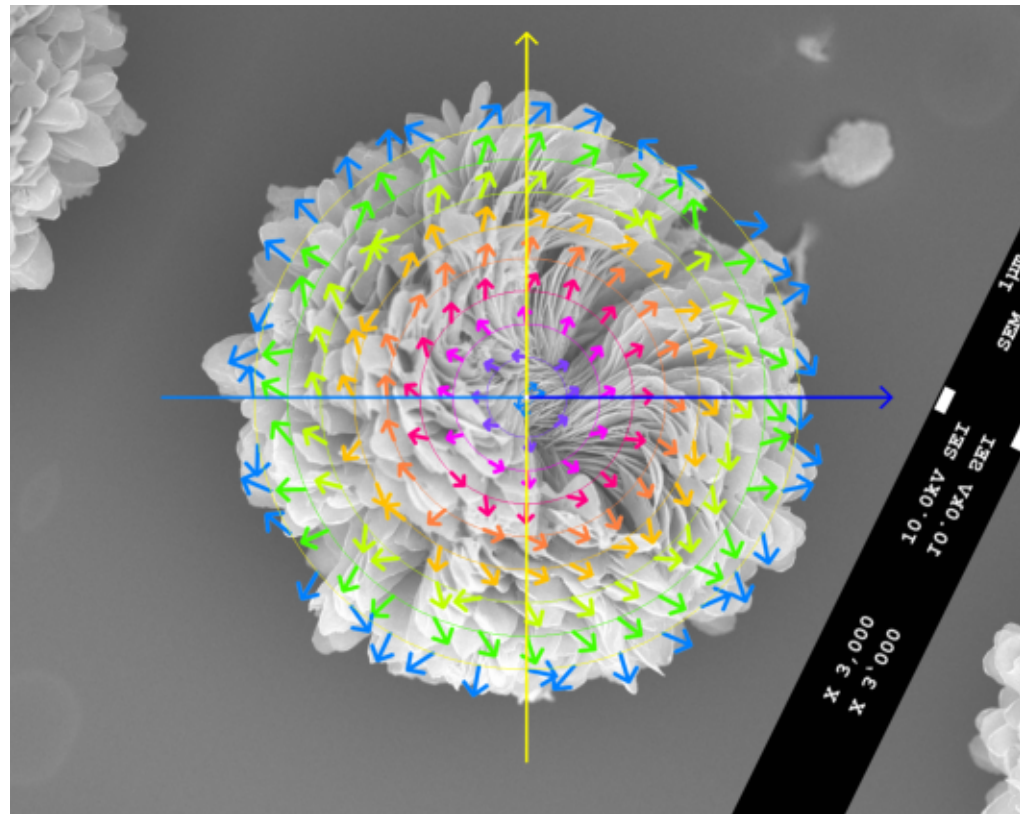
## Dominant Normal (0→ $\pi$ )



Before rotation



After rotation (Code A)  
(angle=63.83°)



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

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
1	(9.00, 0.00)	24.64	Anticlockwise
1	(0.00, -9.00)	-12.20	Clockwise
1	(-9.00, 0.00)	85.31	Anticlockwise
1	(0.00, 9.00)	-60.38	Clockwise
2	(51.00, 0.00)	42.22	Anticlockwise
2	(36.00, -36.00)	79.64	Anticlockwise
2	(0.00, -51.00)	19.91	Anticlockwise
2	(-36.00, -36.00)	-51.56	Clockwise
2	(-51.00, 0.00)	-4.68	Clockwise
2	(-36.00, 36.00)	22.40	Anticlockwise
2	(0.00, 51.00)	83.44	Anticlockwise
2	(36.00, 36.00)	-20.67	Clockwise
3	(93.00, 0.00)	30.20	Anticlockwise
3	(81.00, -47.00)	45.23	Anticlockwise
3	(47.00, -81.00)	26.11	Anticlockwise
3	(0.00, -93.00)	11.69	Anticlockwise
3	(-47.00, -81.00)	89.60	Anticlockwise
3	(-81.00, -47.00)	-14.99	Clockwise
3	(-93.00, 0.00)	-31.86	Clockwise
3	(-81.00, 47.00)	1.43	Anticlockwise
3	(-47.00, 81.00)	9.72	Anticlockwise
3	(0.00, 93.00)	10.28	Anticlockwise
3	(47.00, 81.00)	8.13	Anticlockwise
3	(81.00, 47.00)	23.37	Anticlockwise
4	(135.00, 0.00)	5.16	Anticlockwise
4	(125.00, -52.00)	14.42	Anticlockwise
4	(95.00, -95.00)	-0.33	Clockwise
4	(52.00, -125.00)	55.60	Anticlockwise
4	(0.00, -135.00)	-3.63	Clockwise
4	(-52.00, -125.00)	29.80	Anticlockwise

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

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
4	(-95.00, -95.00)	89.83	Anticlockwise
4	(-125.00, -52.00)	-35.91	Clockwise
4	(-135.00, 0.00)	-41.65	Clockwise
4	(-125.00, 52.00)	-52.06	Clockwise
4	(-95.00, 95.00)	-45.46	Clockwise
4	(-52.00, 125.00)	-23.51	Clockwise
4	(0.00, 135.00)	-31.68	Clockwise
4	(52.00, 125.00)	5.65	Anticlockwise
4	(95.00, 95.00)	6.85	Anticlockwise
4	(125.00, 52.00)	8.04	Anticlockwise
5	(176.00, 0.00)	-31.57	Clockwise
5	(167.00, -54.00)	-18.56	Clockwise
5	(142.00, -103.00)	-23.73	Clockwise
5	(103.00, -142.00)	-7.60	Clockwise
5	(54.00, -167.00)	47.51	Anticlockwise
5	(0.00, -176.00)	65.72	Anticlockwise
5	(-54.00, -167.00)	88.33	Anticlockwise
5	(-103.00, -142.00)	-14.00	Clockwise
5	(-142.00, -103.00)	-81.31	Clockwise
5	(-167.00, -54.00)	-86.67	Clockwise
5	(-176.00, 0.00)	-84.92	Clockwise
5	(-167.00, 54.00)	-48.47	Clockwise
5	(-142.00, 103.00)	-73.54	Clockwise
5	(-103.00, 142.00)	-38.08	Clockwise
5	(-54.00, 167.00)	-29.53	Clockwise
5	(0.00, 176.00)	-15.24	Clockwise
5	(54.00, 167.00)	-17.30	Clockwise
5	(103.00, 142.00)	-8.09	Clockwise
5	(142.00, 103.00)	0.37	Anticlockwise
5	(167.00, 54.00)	8.84	Anticlockwise

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

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
6	(218.00, 0.00)	-44.70	Clockwise
6	(211.00, -56.00)	-71.56	Clockwise
6	(189.00, -109.00)	-32.17	Clockwise
6	(154.00, -154.00)	-35.32	Clockwise
6	(109.00, -189.00)	58.93	Anticlockwise
6	(56.00, -211.00)	48.52	Anticlockwise
6	(0.00, -218.00)	65.69	Anticlockwise
6	(-56.00, -211.00)	49.63	Anticlockwise
6	(-109.00, -189.00)	20.56	Anticlockwise
6	(-154.00, -154.00)	-82.00	Clockwise
6	(-189.00, -109.00)	81.25	Anticlockwise
6	(-211.00, -56.00)	35.68	Anticlockwise
6	(-218.00, 0.00)	-62.17	Clockwise
6	(-211.00, 56.00)	-60.80	Clockwise
6	(-189.00, 109.00)	84.99	Anticlockwise
6	(-154.00, 154.00)	-65.02	Clockwise
6	(-109.00, 189.00)	-6.81	Clockwise
6	(-56.00, 211.00)	-27.36	Clockwise
6	(0.00, 218.00)	-63.03	Clockwise
6	(56.00, 211.00)	-47.39	Clockwise
6	(109.00, 189.00)	-50.41	Clockwise
6	(154.00, 154.00)	-18.68	Clockwise
6	(189.00, 109.00)	-28.15	Clockwise
6	(211.00, 56.00)	3.66	Anticlockwise
7	(260.00, 0.00)	-49.94	Clockwise
7	(253.00, -58.00)	-70.94	Clockwise
7	(234.00, -113.00)	-55.49	Clockwise
7	(203.00, -162.00)	-44.48	Clockwise
7	(162.00, -203.00)	47.42	Anticlockwise
7	(113.00, -234.00)	32.25	Anticlockwise

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

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
7	(58.00, -253.00)	37.88	Anticlockwise
7	(0.00, -260.00)	30.90	Anticlockwise
7	(-58.00, -253.00)	-67.51	Clockwise
7	(-113.00, -234.00)	40.61	Anticlockwise
7	(-162.00, -203.00)	-45.76	Clockwise
7	(-203.00, -162.00)	45.40	Anticlockwise
7	(-234.00, -113.00)	-41.06	Clockwise
7	(-253.00, -58.00)	-43.85	Clockwise
7	(-260.00, 0.00)	-70.35	Clockwise
7	(-253.00, 58.00)	-55.53	Clockwise
7	(-234.00, 113.00)	-37.28	Clockwise
7	(-203.00, 162.00)	-69.56	Clockwise
7	(-162.00, 203.00)	66.93	Anticlockwise
7	(-113.00, 234.00)	-31.24	Clockwise
7	(-58.00, 253.00)	-32.47	Clockwise
7	(0.00, 260.00)	-43.31	Clockwise
7	(58.00, 253.00)	-37.38	Clockwise
7	(113.00, 234.00)	-87.65	Clockwise
7	(162.00, 203.00)	55.98	Anticlockwise
7	(203.00, 162.00)	-7.26	Clockwise
7	(234.00, 113.00)	-8.99	Clockwise
7	(253.00, 58.00)	-33.97	Clockwise
8	(302.00, 0.00)	-51.83	Clockwise
8	(296.00, -59.00)	28.08	Anticlockwise
8	(279.00, -116.00)	25.71	Anticlockwise
8	(251.00, -168.00)	-34.71	Clockwise
8	(214.00, -214.00)	21.76	Anticlockwise
8	(168.00, -251.00)	28.53	Anticlockwise
8	(116.00, -279.00)	29.65	Anticlockwise
8	(59.00, -296.00)	40.34	Anticlockwise

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

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
8	(0.00, -302.00)	18.95	Anticlockwise
8	(-59.00, -296.00)	43.65	Anticlockwise
8	(-116.00, -279.00)	49.83	Anticlockwise
8	(-168.00, -251.00)	-13.79	Clockwise
8	(-214.00, -214.00)	15.04	Anticlockwise
8	(-251.00, -168.00)	-8.97	Clockwise
8	(-279.00, -116.00)	-21.09	Clockwise
8	(-296.00, -59.00)	-60.83	Clockwise
8	(-302.00, 0.00)	-30.01	Clockwise
8	(-296.00, 59.00)	20.09	Anticlockwise
8	(-279.00, 116.00)	-58.67	Clockwise
8	(-251.00, 168.00)	5.07	Anticlockwise
8	(-214.00, 214.00)	-66.91	Clockwise
8	(-168.00, 251.00)	-4.67	Clockwise
8	(-116.00, 279.00)	-14.26	Clockwise
8	(-59.00, 296.00)	-28.32	Clockwise
8	(0.00, 302.00)	-28.22	Clockwise
8	(59.00, 296.00)	-50.90	Clockwise
8	(116.00, 279.00)	-62.46	Clockwise
8	(168.00, 251.00)	-20.68	Clockwise
8	(214.00, 214.00)	51.57	Anticlockwise
8	(251.00, 168.00)	-25.22	Clockwise
8	(279.00, 116.00)	-37.22	Clockwise
8	(296.00, 59.00)	-38.81	Clockwise
9	(344.00, 0.00)	-88.99	Clockwise
9	(339.00, -60.00)	-25.55	Clockwise
9	(323.00, -118.00)	32.45	Anticlockwise
9	(298.00, -172.00)	-49.86	Clockwise
9	(264.00, -221.00)	-31.22	Clockwise
9	(221.00, -264.00)	73.65	Anticlockwise



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

Ring	Coordinate	Angle ( $\alpha'$ )	Pattern
9	(172.00, -298.00)	36.42	Anticlockwise
9	(118.00, -323.00)	-2.63	Clockwise
9	(60.00, -339.00)	-51.33	Clockwise
9	(0.00, -344.00)	77.70	Anticlockwise
9	(-60.00, -339.00)	-0.49	Clockwise
9	(-118.00, -323.00)	-36.83	Clockwise
9	(-172.00, -298.00)	4.92	Anticlockwise
9	(-221.00, -264.00)	76.05	Anticlockwise
9	(-264.00, -221.00)	20.67	Anticlockwise
9	(-298.00, -172.00)	-68.27	Clockwise
9	(-323.00, -118.00)	-43.77	Clockwise
9	(-339.00, -60.00)	78.12	Anticlockwise
9	(-344.00, 0.00)	-82.95	Clockwise
9	(-339.00, 60.00)	34.22	Anticlockwise
9	(-323.00, 118.00)	81.06	Anticlockwise
9	(-298.00, 172.00)	-8.61	Clockwise
9	(-264.00, 221.00)	-6.25	Clockwise
9	(-221.00, 264.00)	-31.33	Clockwise
9	(-172.00, 298.00)	-26.53	Clockwise
9	(-118.00, 323.00)	41.80	Anticlockwise
9	(-60.00, 339.00)	-51.34	Clockwise
9	(0.00, 344.00)	-47.35	Clockwise
9	(60.00, 339.00)	-53.13	Clockwise
9	(171.00, 297.00)	76.86	Anticlockwise
9	(221.00, 264.00)	89.20	Anticlockwise
9	(264.00, 221.00)	-47.74	Clockwise
9	(298.00, 172.00)	-57.08	Clockwise
9	(323.00, 118.00)	14.49	Anticlockwise
9	(339.00, 60.00)	-63.12	Clockwise
SUMMARY	n_vectors=179	nan	Clockwise