



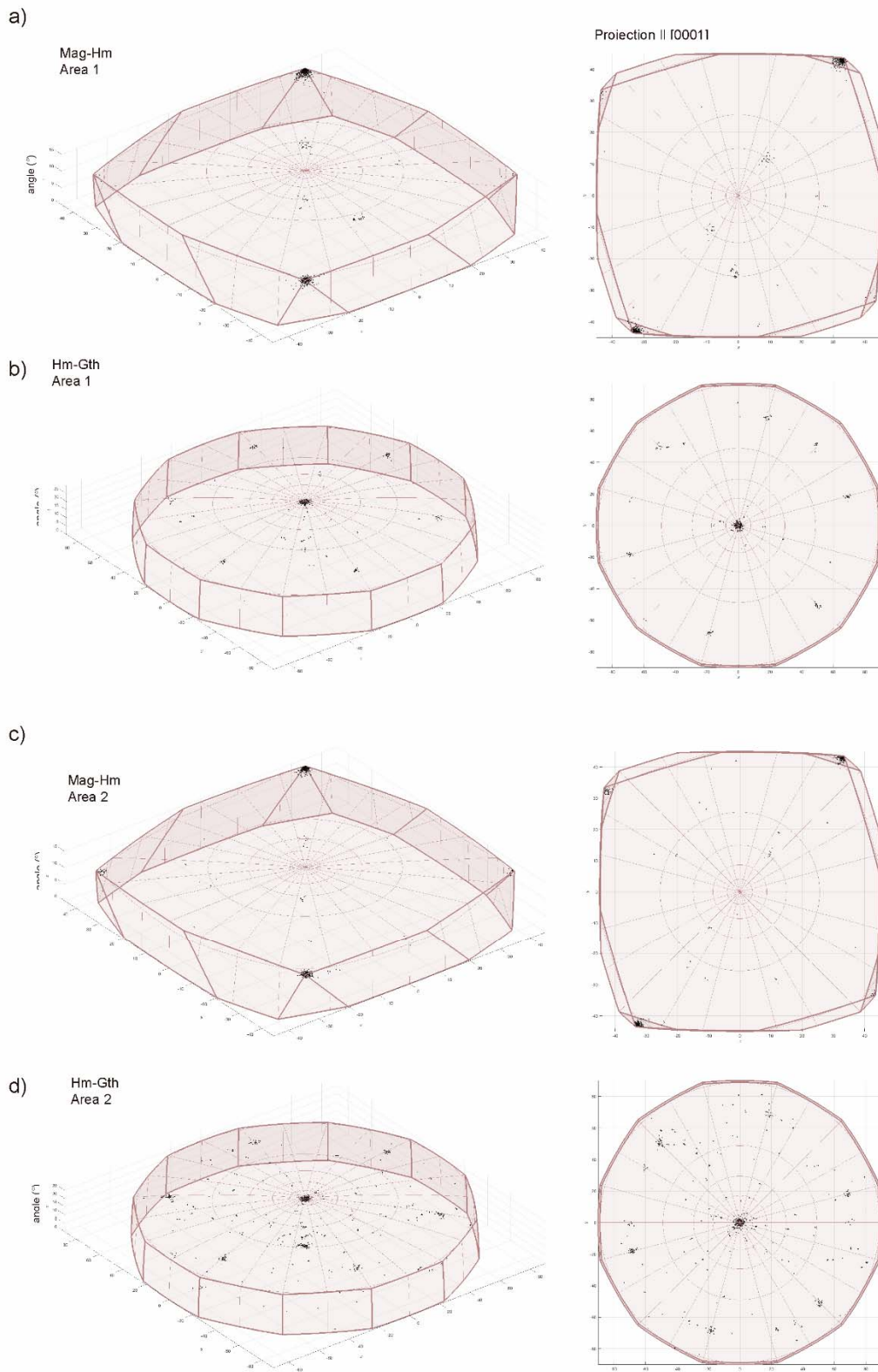
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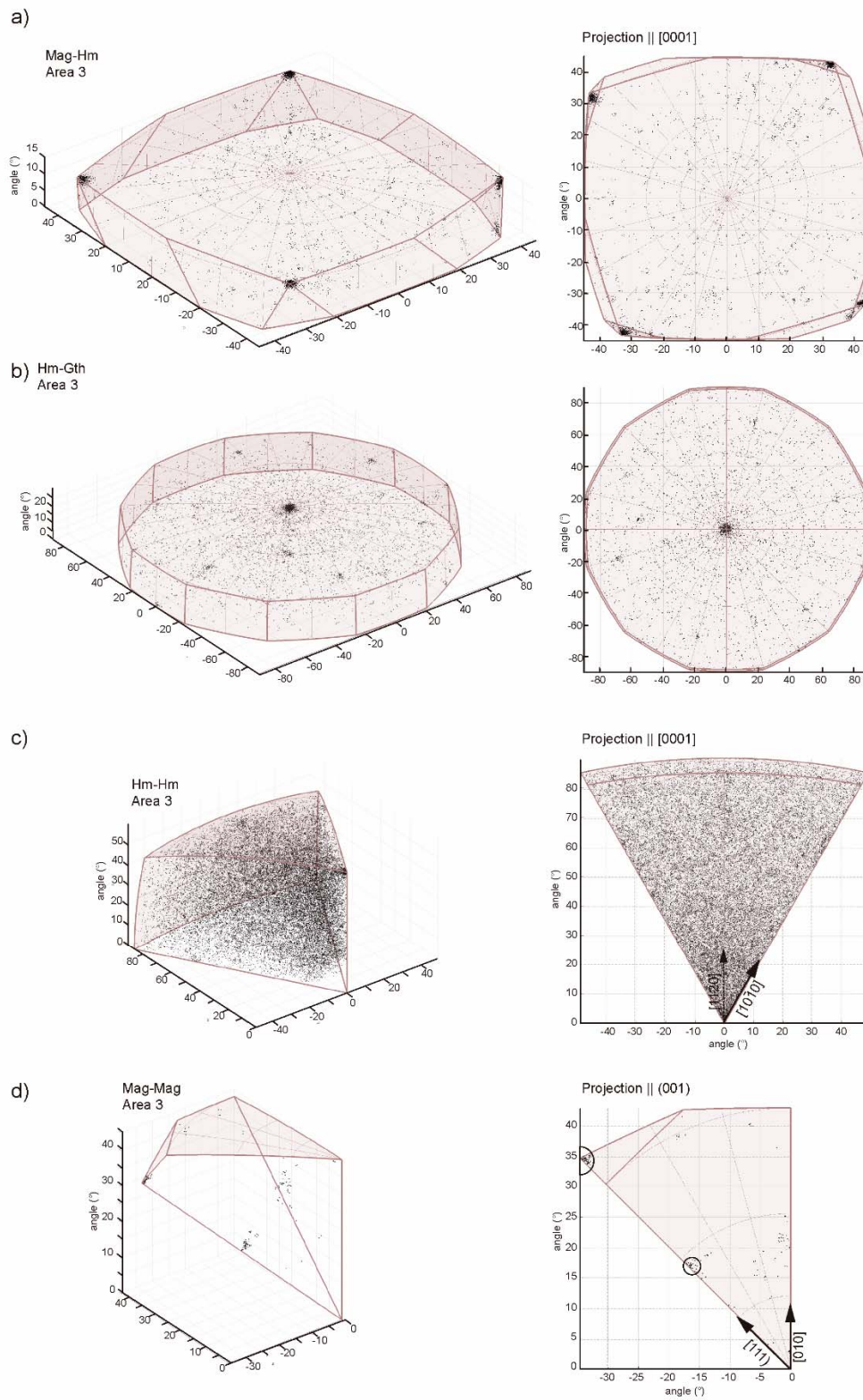
**Misorientation relationships in goethite, hematite and magnetite: a case study of iron-formation rocks from the Iron Quadrangle, Brazil**

**Paola Barbosa, Leonardo Lagoeiro and Victor Mota e Nogueira**

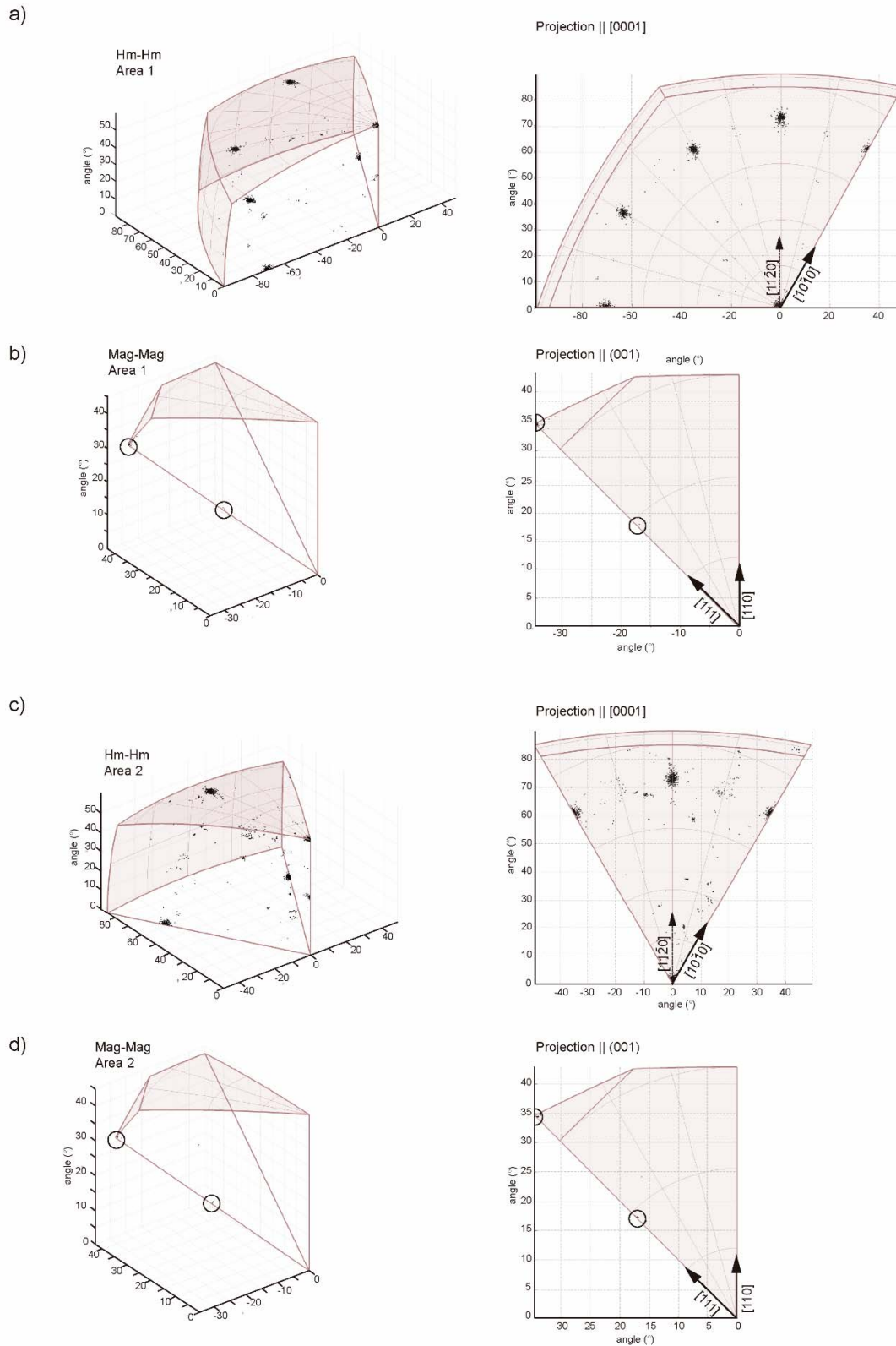


**Figure S1** Main misorientation clusters in axes-angle space of the cubic to trigonal fundamental zone between magnetite and hematite grain boundaries of Area 1 a) and Area 2 c); and trigonal to

orthorhombic fundamental zone between hematite and goethite grain boundaries of Area 1 b) and Area 2 d).



**Figure S2** Main misorientation clusters of Area 3 in axes-angle space of the cubic to trigonal fundamental zone between magnetite and hematite grain boundaries a); trigonal to orthorhombic fundamental zone between hematite and goethite grain boundaries b); trigonal fundamental zone between hematite-hematite boundaries c); and cubic fundamental zone between magnetite-magnetite boundaries d).



**Figure S3** Main misorientation clusters in axes-angle space of the trigonal fundamental zone between hematite-hematite boundaries of Area 1 a) and Area 2 c); and cubic fundamental zone between magnetite-magnetite boundaries of Area 1 c) and Area 2 d).