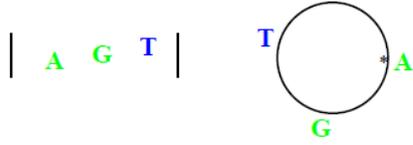
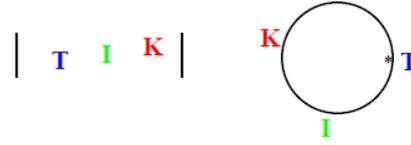


Fig. S6: Structural view of helix, beta turn, gamma turn and distorted geometry in two pigeon pea genotypes ICP 7035 and ICPL 84023

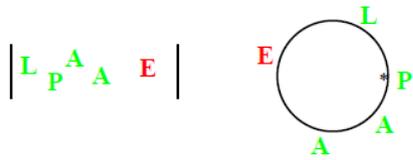
A): Structural view of 14 helix in ICP 7035



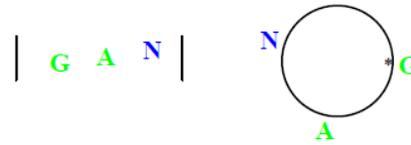
Helix 1. Ala2-Thr4
Sequence: **AGT**
Length: 3 residues



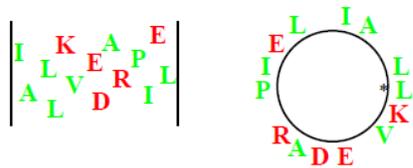
Helix 2. Thr17-Lys19
Sequence: **TIK**
Length: 3 residues



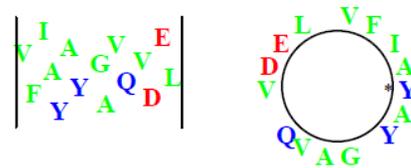
Helix 3. Pro21-Ala25
Sequence: **PAELA**
Length: 5 residues



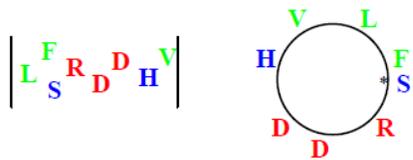
Helix 4. Gly27-Asn29
Sequence: **GAN**
Length: 3 residues



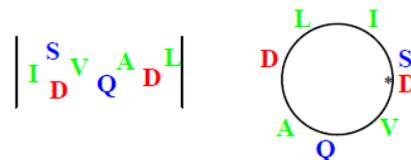
Helix 5. Leu32-Glu45
Sequence: **LDIAVRLLEPIKAE**
Length: 14 residues



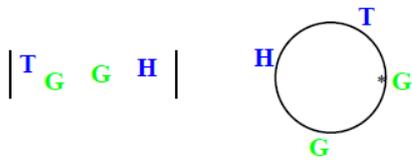
Helix 6. Tyr51-Ile65
Sequence: **YADFYQLAGVVAVEI**
Length: 15 residues



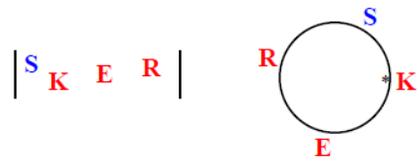
Helix 7. Ser96-Phe103
Sequence: **SDHLRDVF**
Length: 8 residues



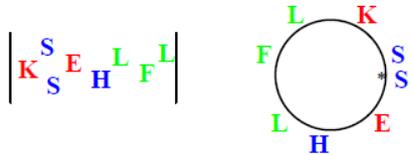
Helix 8. Asp111-Ser118
Sequence: **DQDIVALS**
Length: 8 residues



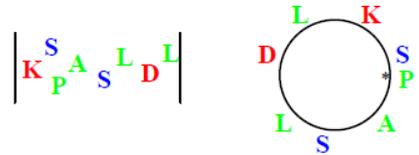
Helix 9. Gly119-Thr122
 Sequence: **GGHT**
 Length: 4 residues



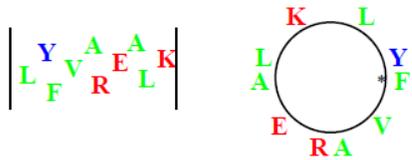
Helix 10. Lys128-Ser131
 Sequence: **KERS**
 Length: 4 residues



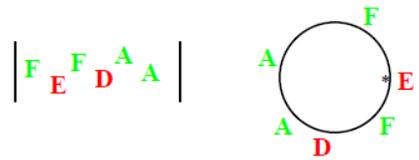
Helix 11. Ser147-Ser154
 Sequence: **SHFKELLS**
 Length: 8 residues



Helix 12. Pro164-Ser171
 Sequence: **PSDKALLS**
 Length: 8 residues

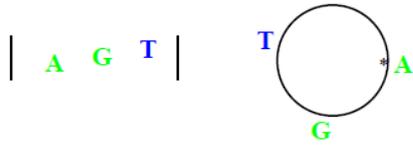


Helix 13. Phe175-Ala184
 Sequence: **FRLLV EK YAA**
 Length: 10 residues

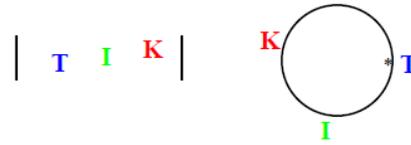


Helix 14. Glu186-Ala191
 Sequence: **EDAFFA**
 Length: 6 residues

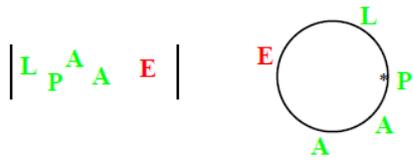
B): Structural view of 14 helix in ICPL 84023



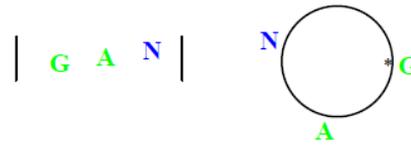
Helix 1. Ala2-Thr4
 Sequence: **AGT**
 Length: 3 residues



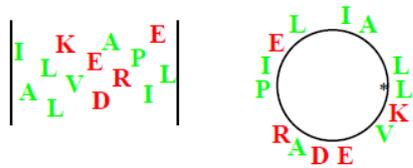
Helix 2. Thr17-Lys19
 Sequence: **TIK**
 Length: 3 residues



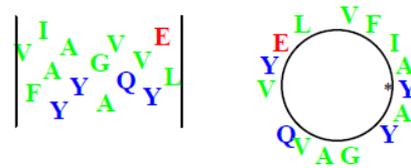
Helix 3. Pro21-Ala25
 Sequence: **PAELA**
 Length: 5 residues



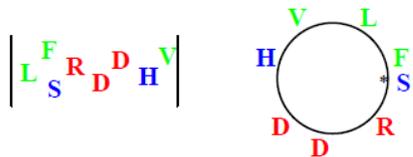
Helix 4. Gly27-Asn29
 Sequence: **GAN**
 Length: 3 residues



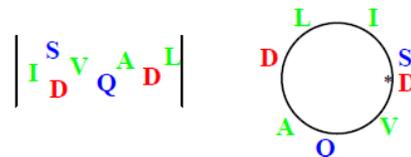
Helix 5. Leu32-Glu45
 Sequence: **LDIAVRLLEPIKAE**
 Length: 14 residues



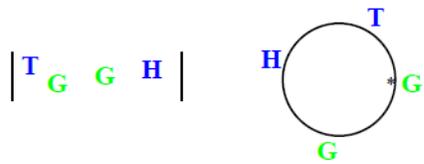
Helix 6. Tyr51-Ile65
 Sequence: **YAYFYQLAGVVAVEI**
 Length: 15 residues



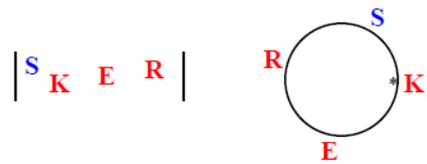
Helix 7. Ser96-Phe103
 Sequence: **SDHLRDVF**
 Length: 8 residues



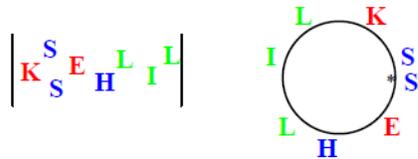
Helix 8. Asp111-Ser118
 Sequence: **DQDIVALS**
 Length: 8 residues



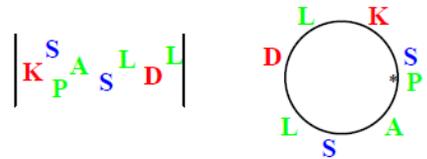
Helix 9. Gly119-Thr122
 Sequence: **GGHT**
 Length: 4 residues



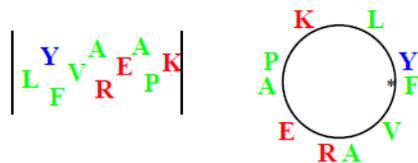
Helix 10. Lys128-Ser131
 Sequence: **KERS**
 Length: 4 residues



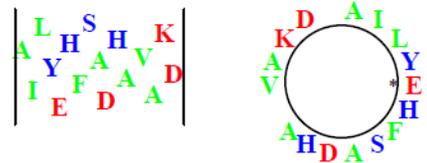
Helix 11. Ser147-Ser154
 Sequence: **SHIKELLS**
 Length: 8 residues



Helix 12. Pro164-Ser171
 Sequence: **PSDKALLS**
 Length: 8 residues

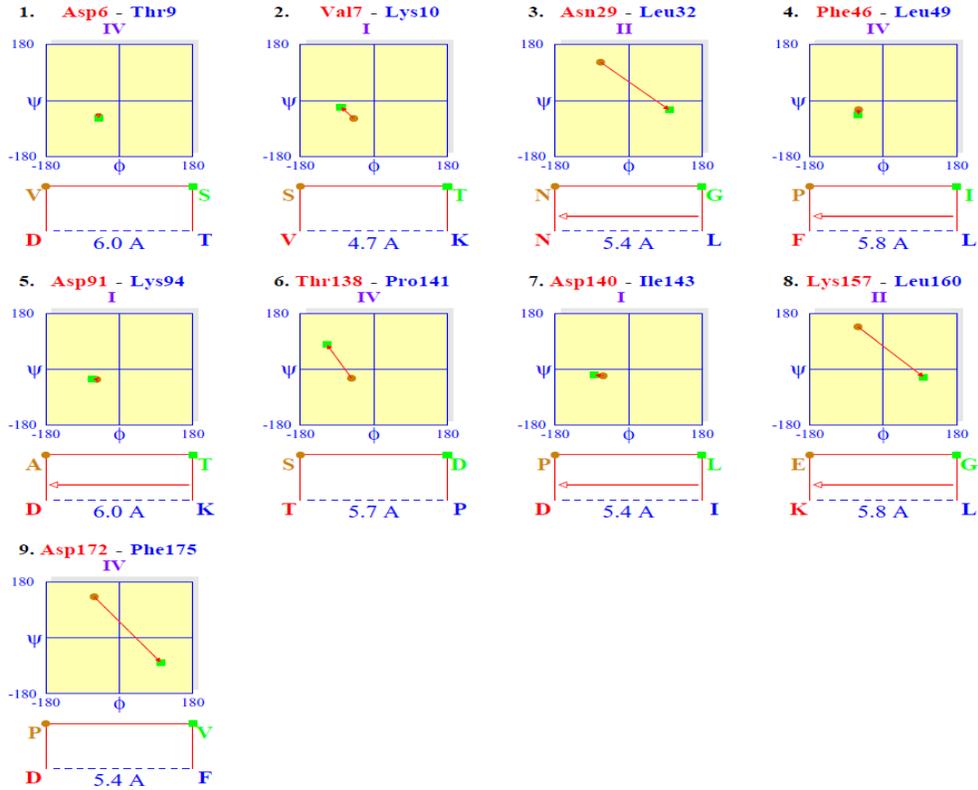


Helix 13. Phe175-Ala184
 Sequence: **FRPLVEKYAA**
 Length: 10 residues

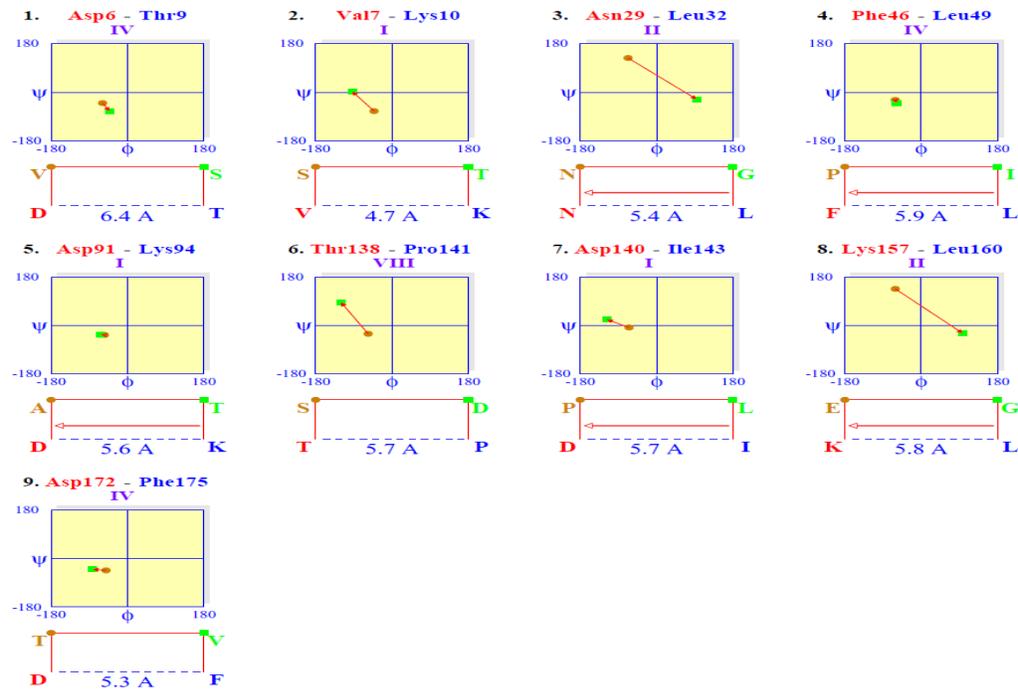


Helix 14. Glu186-Ser201
 Sequence: **EDAIFADYAVAHKLS**
 Length: 16 residues

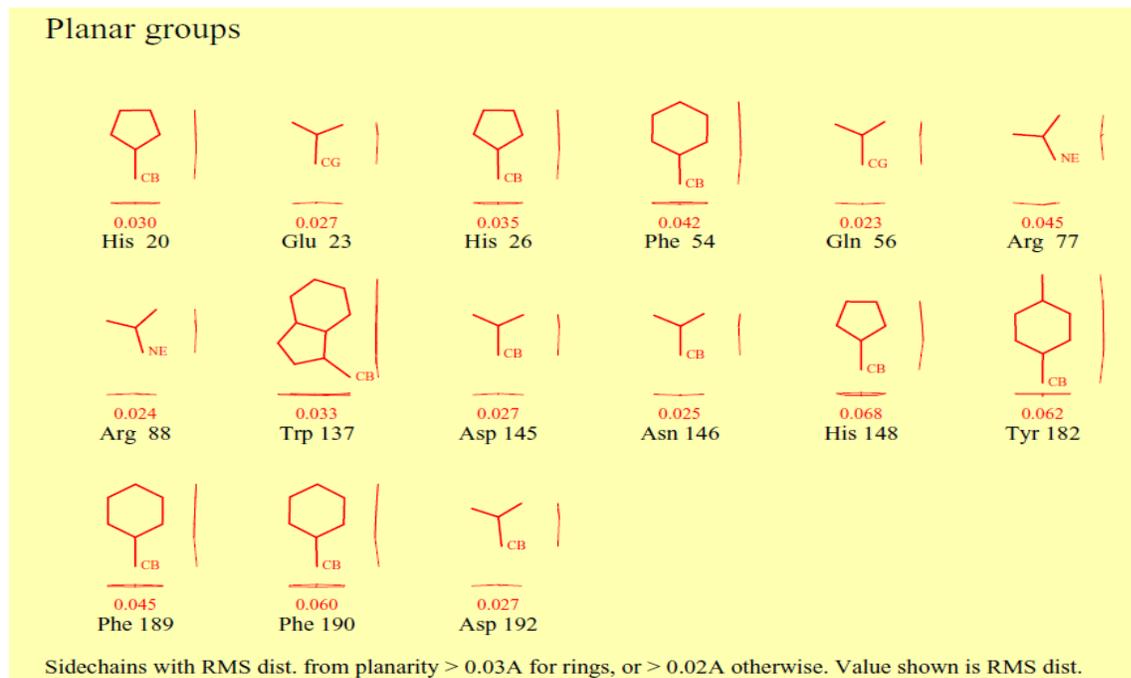
C) beta turn in ICP 7035



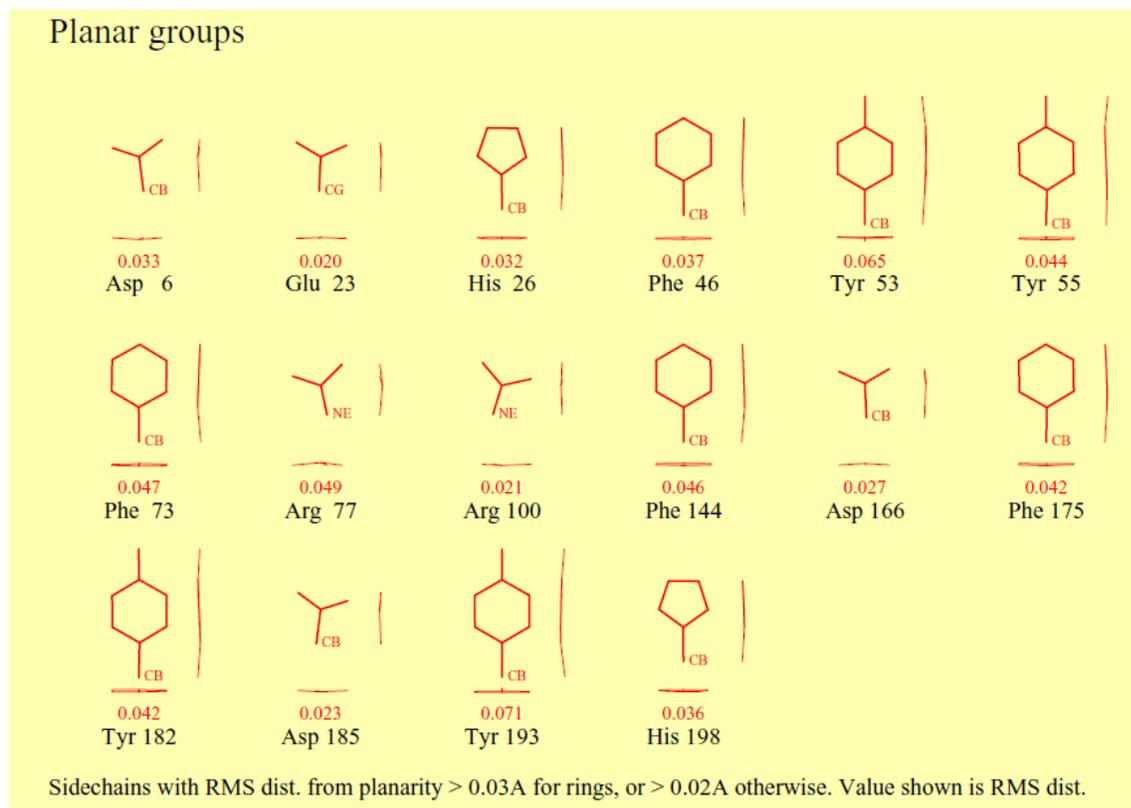
beta turn in ICPL 84023



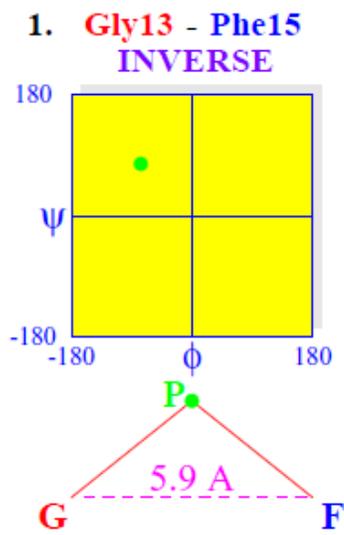
D) Distorted geometry of ICP 7035



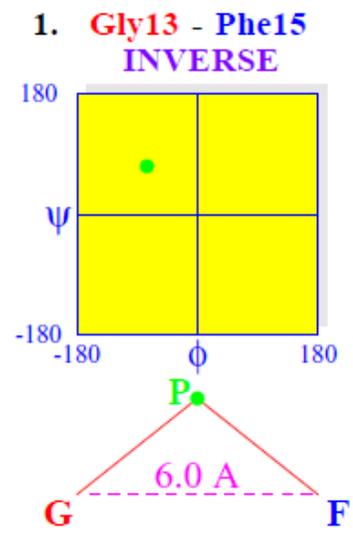
Distorted geometry of ICPL 84023



E) Gamma turn of ICP 7035 and ICPL 84023



ICP 7035



ICPL 84023