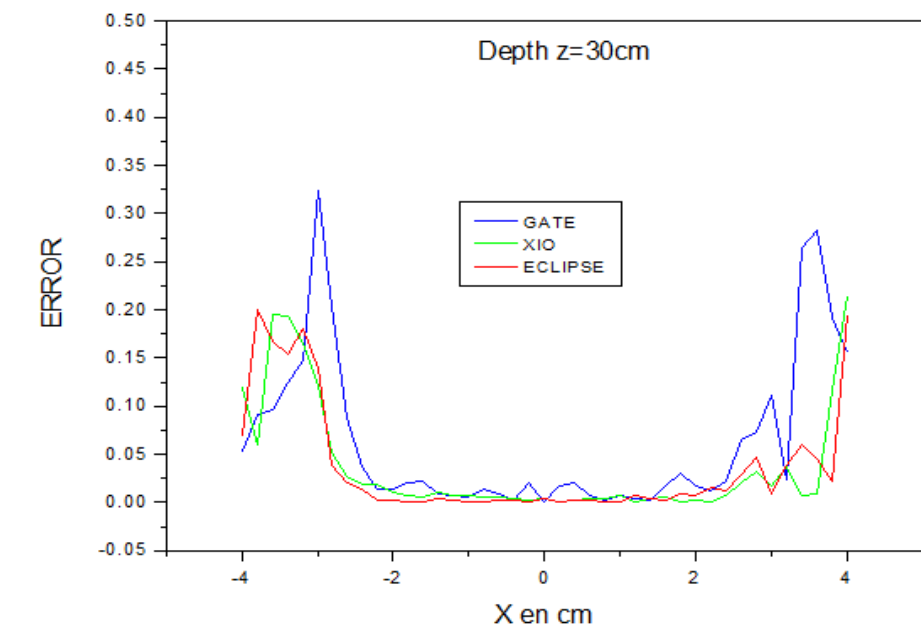
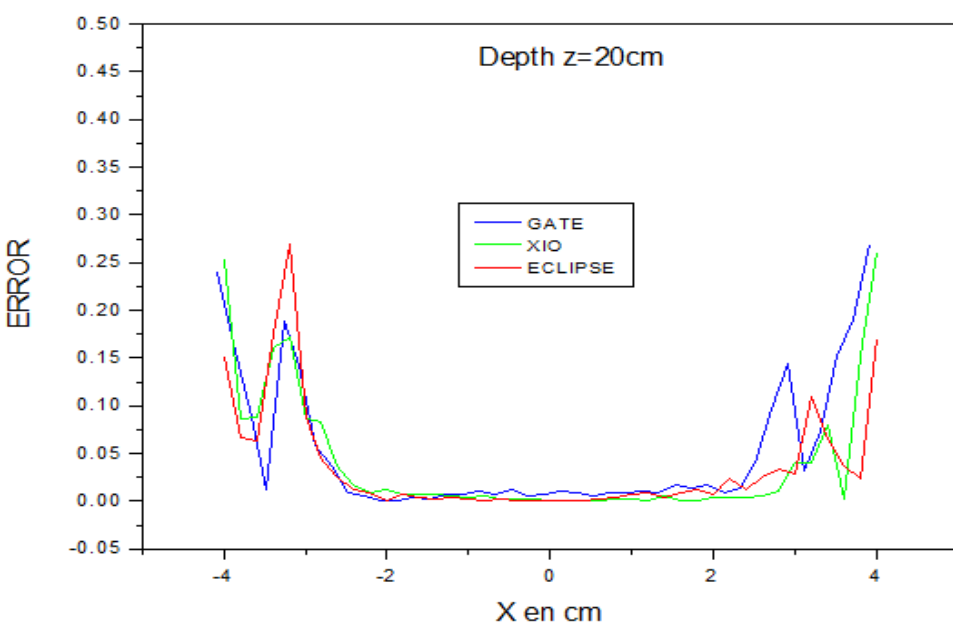
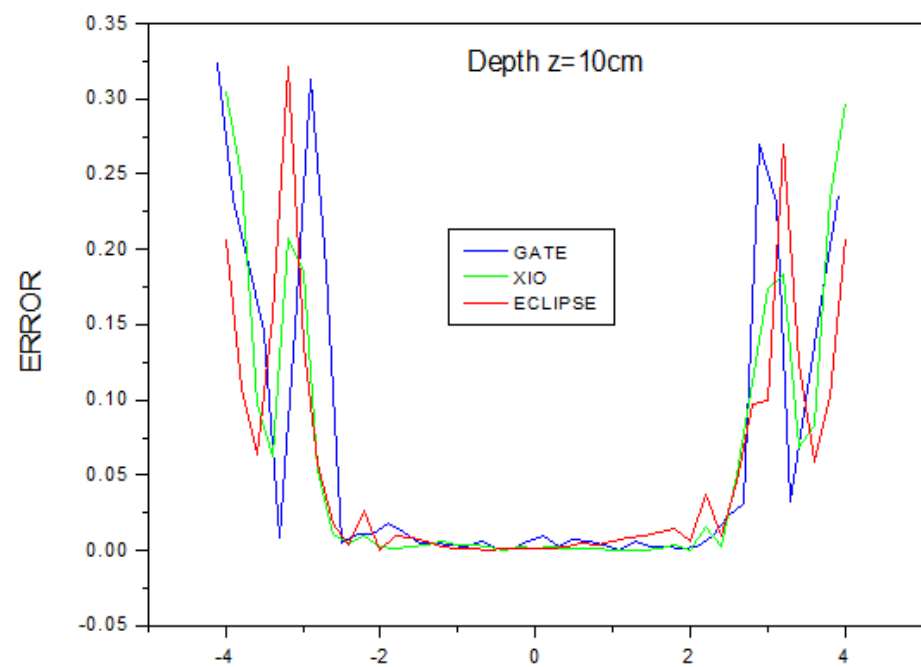
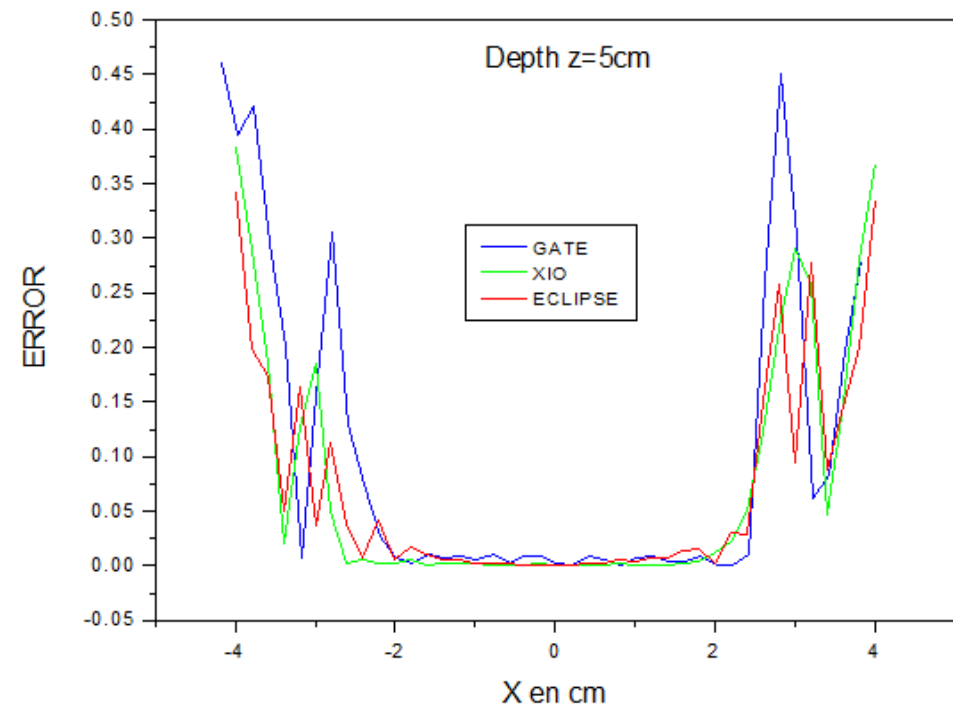


CALCUL DE L'ERREUR :

- ❖ dose < 20
- ❖ 20 < Dose < 80
- ❖ Dose > 80

ERREUR POUR LE CHAMP 5X5m²



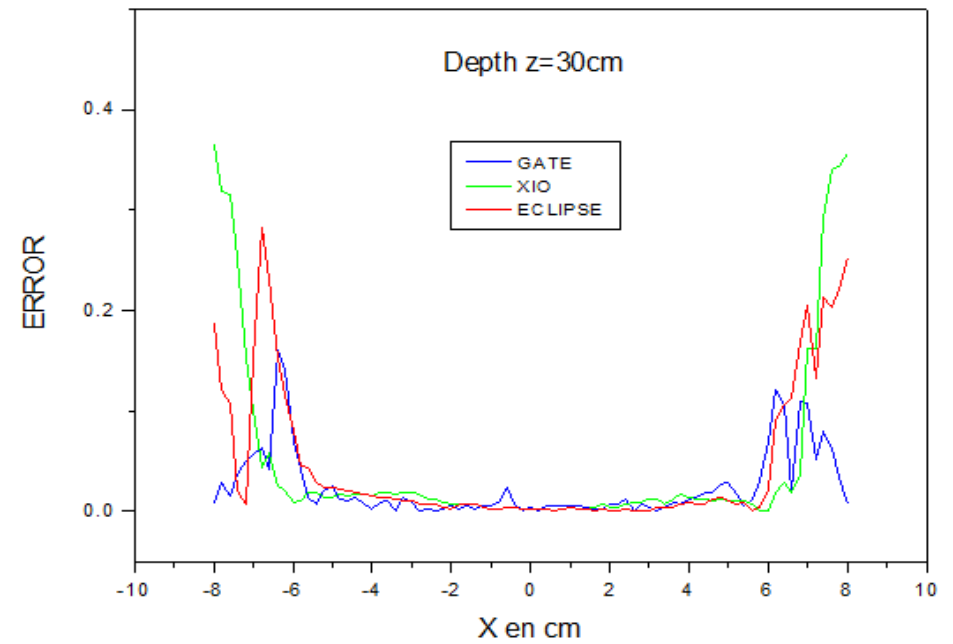
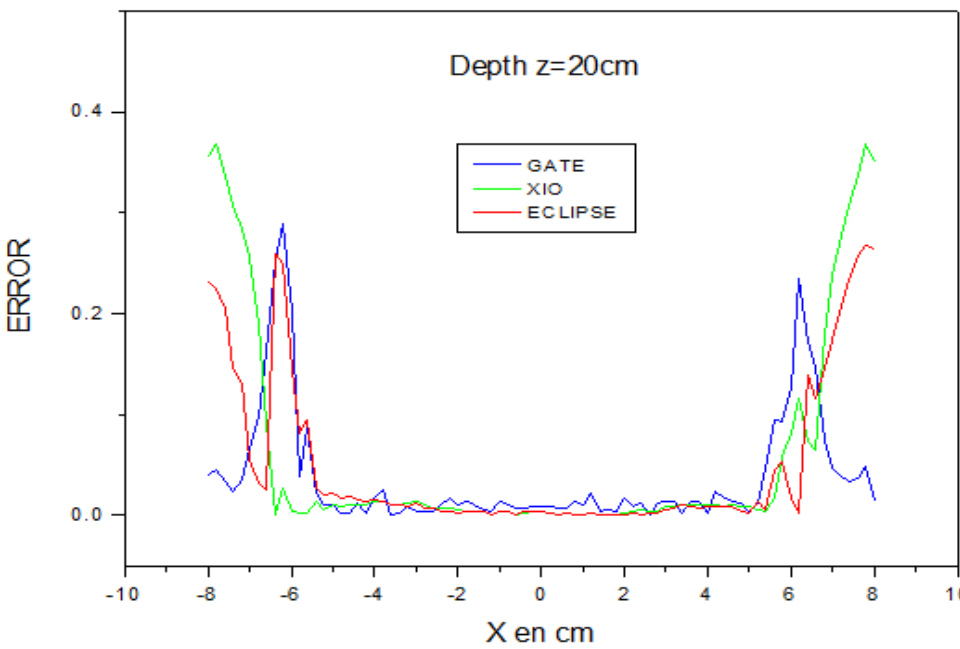
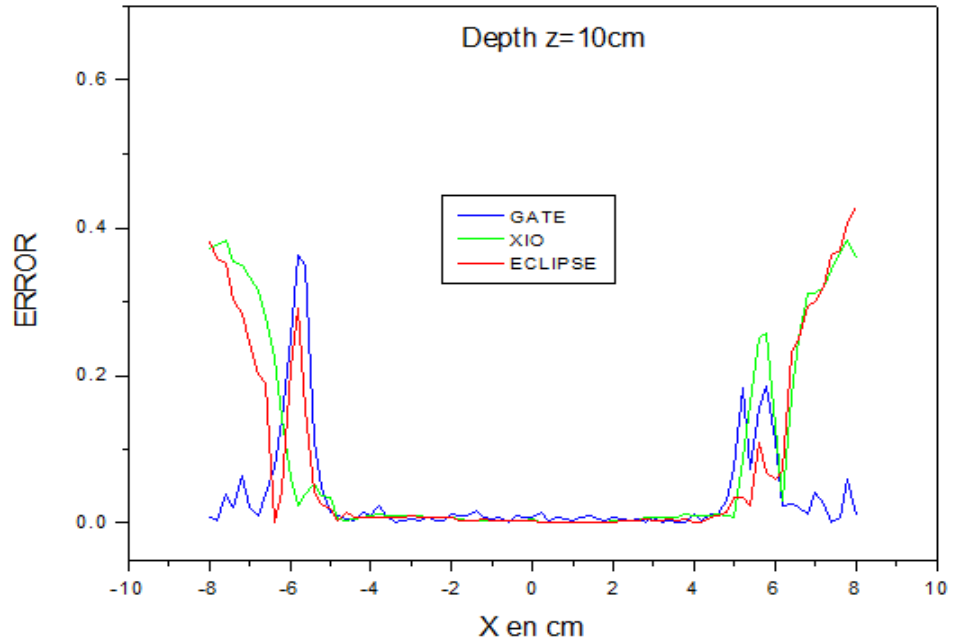
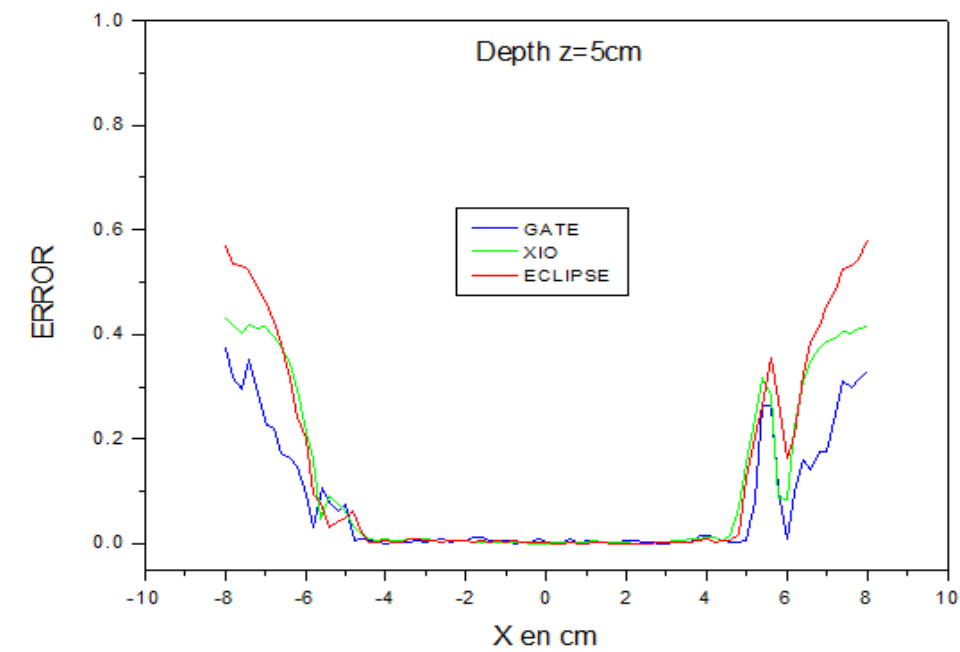
ERREUR POUR LE CHAMP 5X5cm²

| Z=5cm | Gate | Xio | Eclipse |
|-------|---------|---------|---------|
| 20 | 0.46099 | 0.3831 | 0.34196 |
| 20-80 | 0.45059 | 0.21803 | 0.25793 |
| 80 | 0.02724 | 0.02164 | 0.04195 |

| Z=10cm | Gate | Xio | Eclipse |
|--------|---------|---------|---------|
| 20 | 0.23566 | 0.30502 | 0.32134 |
| 20-80 | 0.31282 | 0.1849 | 0.13696 |
| 80 | 0.02231 | 0.01602 | 0.03758 |

| Z=20cm | Gate | Xio | Eclipse |
|--------|---------|---------|---------|
| 20 | 0.26891 | 0.26069 | 0.17506 |
| 20-80 | 0.18785 | 0.17252 | 0.26992 |
| 80 | 0.03945 | 0.01787 | 0.02321 |

ERREUR POUR LE CHAMP
 $10 \times 10 \text{m}^2$



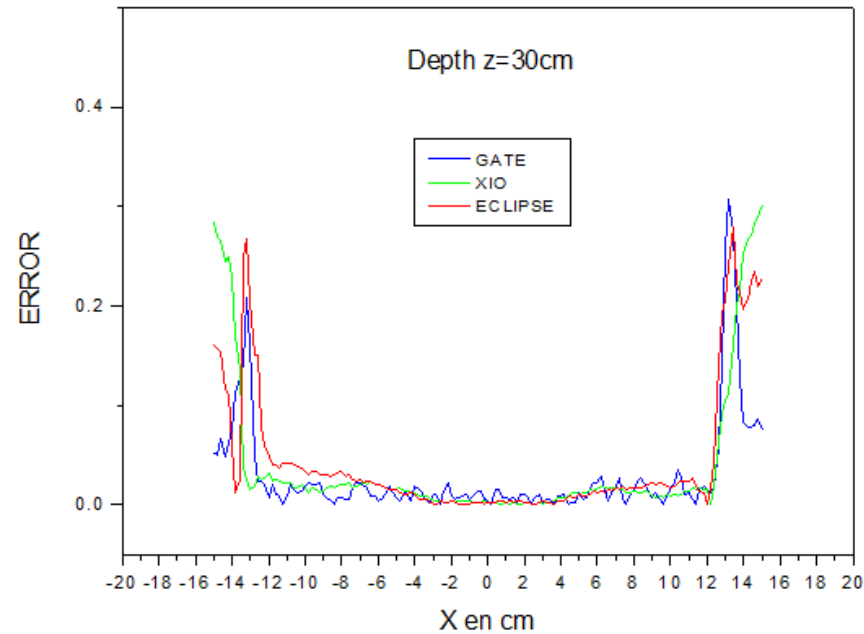
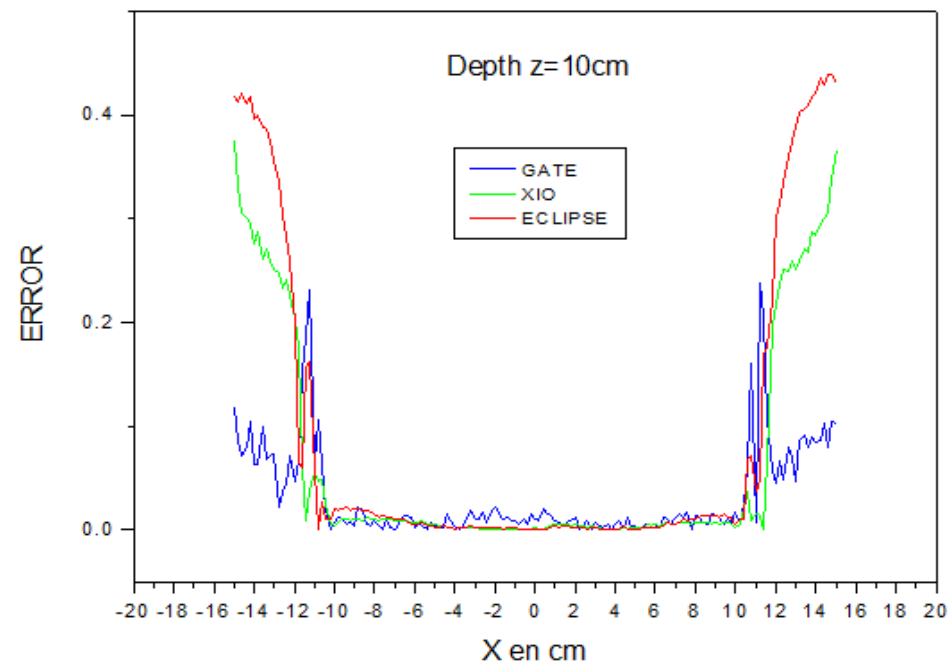
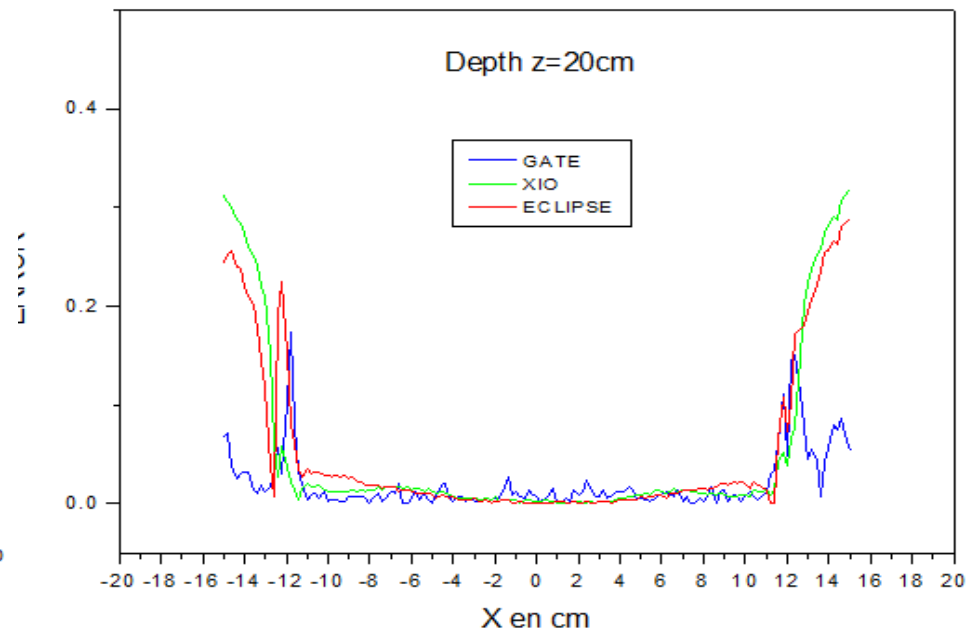
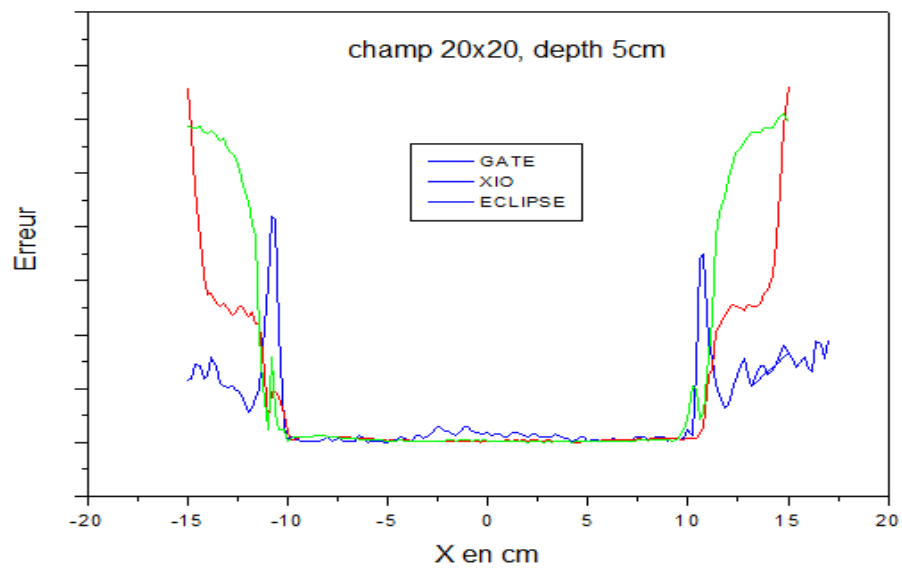
ERREUR POUR LE CHAMP 10X10cm²

| Z=20cm | 20 | 20-80 | 80 |
|---------|----------|----------|----------|
| GATE | 0.161742 | 0.288548 | 0.046347 |
| XIO | 0.368593 | 0.115853 | 0.014469 |
| ECLIPSE | 0.267174 | 0.138721 | 0.026829 |

| Z=10cm | 20 | 20-80 | 80 |
|---------|----------|----------|----------|
| GATE | 0.251591 | 0.362401 | 0.075149 |
| XIO | 0.38334 | 0.257692 | 0.012178 |
| ECLIPSE | 0.429086 | 0.291122 | 0.019517 |

| Z=30cm | 20 | 20-80 | 80 |
|---------|----------|----------|----------|
| GATE | 0.079961 | 0.159664 | 0.041188 |
| XIO | 0.365352 | 0.162257 | 0.019148 |
| ECLIPSE | 0.252652 | 0.283106 | 0.045515 |

ERREUR POUR LE CHAMP
20X20m²



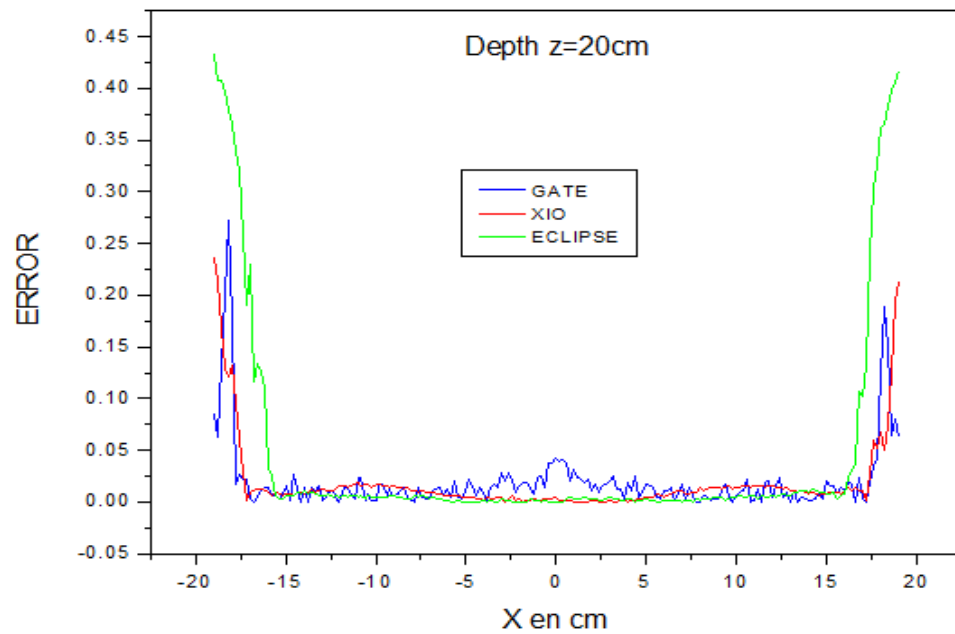
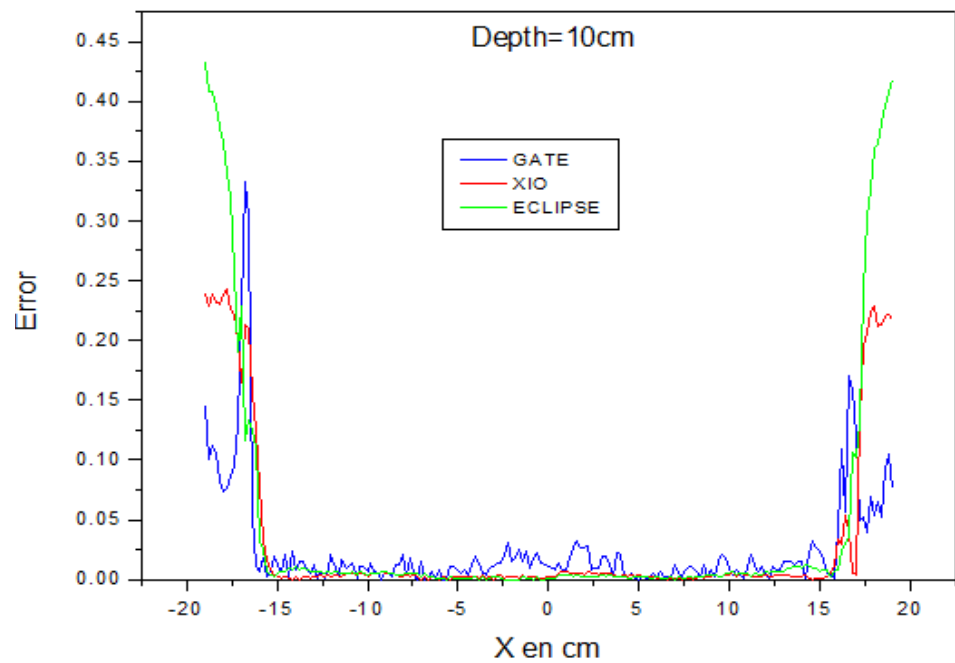
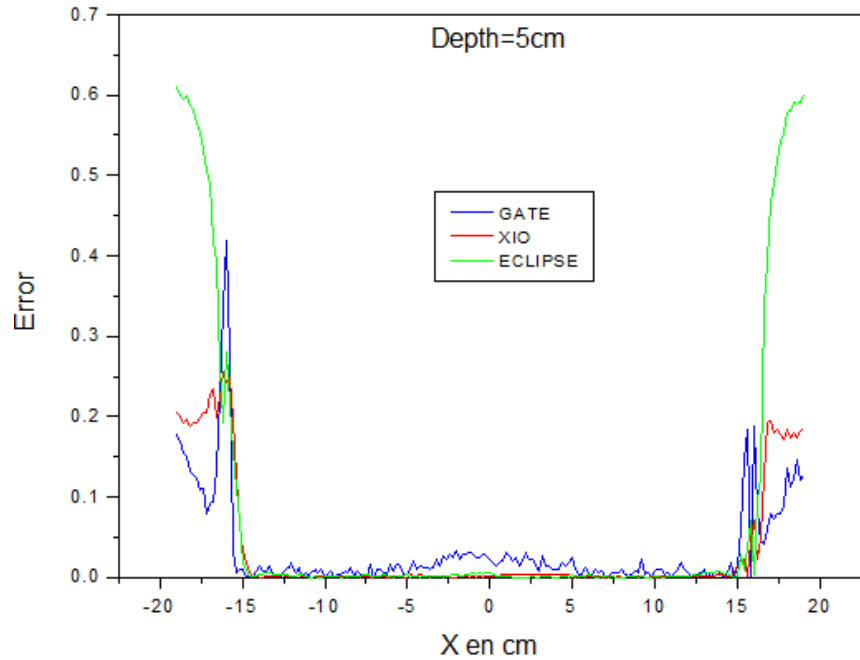
ERREUR POUR LE CHAMP 20X20cm²

| Z=5cm | gate | xio | eclipse |
|-------|---------|---------|---------|
| 20 | 0.29563 | 0.66342 | 0.61165 |
| 20-80 | 0.34834 | 0.09491 | 0.1575 |
| 80 | 0.02855 | 0.01913 | 0.04367 |

| z=10cm | gate | xio | eclipse |
|--------|---------|---------|---------|
| 20 | 0.29563 | 0.3748 | 0.43912 |
| 20-80 | 0.41859 | 0.05554 | 0.16825 |
| 80 | 0.02855 | 0.02547 | 0.02134 |

| z=20cm | gate | xio | eclipse |
|--------|---------|---------|---------|
| 20 | 0.08698 | 0.31892 | 0.28865 |
| 20-80 | 0.17441 | 0.20163 | 0.22538 |
| 80 | 0.03308 | 0.02014 | 0.03532 |

ERREUR POUR LE CHAMP
30X30m²



ERREUR POUR LE CHAMP 30X30cm²

| Z=5cm | Gate | Xio | Eclipse |
|-------|---------|---------|---------|
| 20 | 0.22605 | 0.23382 | 0.60995 |
| 20-80 | 0.41879 | 0.25651 | 0.27963 |
| 80 | 0.05974 | 0.1262 | 0.11016 |

| Z=10cm | Gate | Xio | Eclipse |
|--------|---------|---------|---------|
| 20 | 0.14551 | 0.24331 | 0.43294 |
| 20-80 | 0.33305 | 0.21342 | 0.22916 |
| 80 | 0.04181 | 0.07799 | 0.03287 |

| Z=20cm | Gate | Xio | Eclipse |
|--------|---------|---------|---------|
| 20 | 0.27168 | 0.23673 | 0.21472 |
| 20-80 | 0.0238 | 0.01487 | 0.01591 |
| 80 | 0.04185 | 0.01805 | 0.01659 |

PDD

| 5x5 | ERROR TOTAL | ERROR Z<Zmax | ERROR Z>Zmax | KS probability | KS Distance |
|---------|-------------|--------------|--------------|----------------|-------------|
| MESURE | ref | ref | ref | ref | ref |
| XIO | 0.1555 | 1.5571 | 0.0817 | 1 | 0.002 |
| GATE | 1.4589 | 1.2725 | 1.4673 | 1 | 0.00266 |
| ECLIPSE | 0.8633 | 3.7991 | 1.1087 | 1 | 0.00401 |

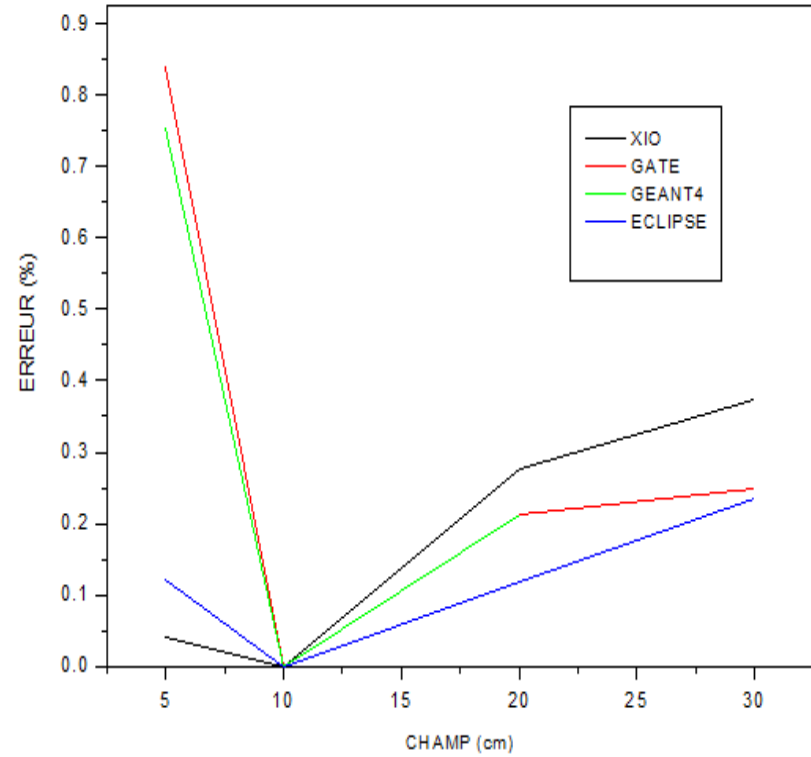
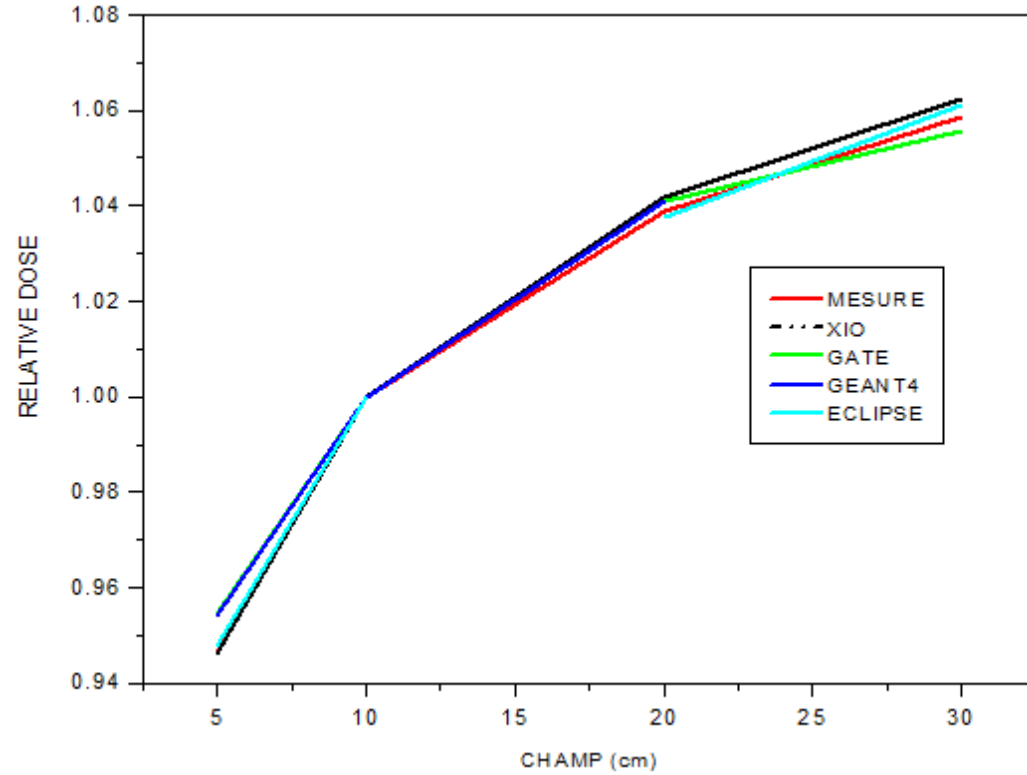
| 10x10 | ERROR TOTAL | ERROR Z<Zmax | ERROR Z>Zmax | KS probability | KS Distance |
|---------|-------------|--------------|--------------|----------------|-------------|
| MESURE | ref | ref | ref | ref | ref |
| XIO | 0.486 | 1.832 | 0.415 | 1 | 0.00196 |
| GATE | 0.643 | 0.776 | 0.706 | 1 | 0.00144 |
| ECLIPSE | 0.766 | 3.178 | 0.974 | 1 | 0.0035 |

| 20x20 | ERROR TOTAL | ERROR Z<Zmax | ERROR Z>Zmax | KS probability | KS Distance |
|---------|-------------|--------------|--------------|----------------|-------------|
| MESURE | ref | ref | ref | ref | ref |
| XIO | 0.1341 | 2.2367 | 0.0234 | 1 | 0.00268 |
| GATE | 0.3817 | 1.1967 | 0.4524 | 1 | 0.00082 |
| ECLIPSE | 0.6882 | 0.8577 | 0.7695 | 1 | 0.00137 |

| 30x30 | ERROR TOTAL | ERROR Z<Zmax | ERROR Z>Zmax | KS probability | KS Distance |
|---------|-------------|--------------|--------------|----------------|-------------|
| MESURE | ref | ref | ref | ref | ref |
| XIO | 0.0612 | 2.6602 | 0.2044 | 1 | 0.00335 |
| GATE | 0.0443 | 1.6899 | 0.0191 | 1 | 0.00045 |
| ECLIPSE | 0.8456 | 2.3964 | 1.0163 | 1 | 0.00283 |
| VIENNA | | | | | |

FOC

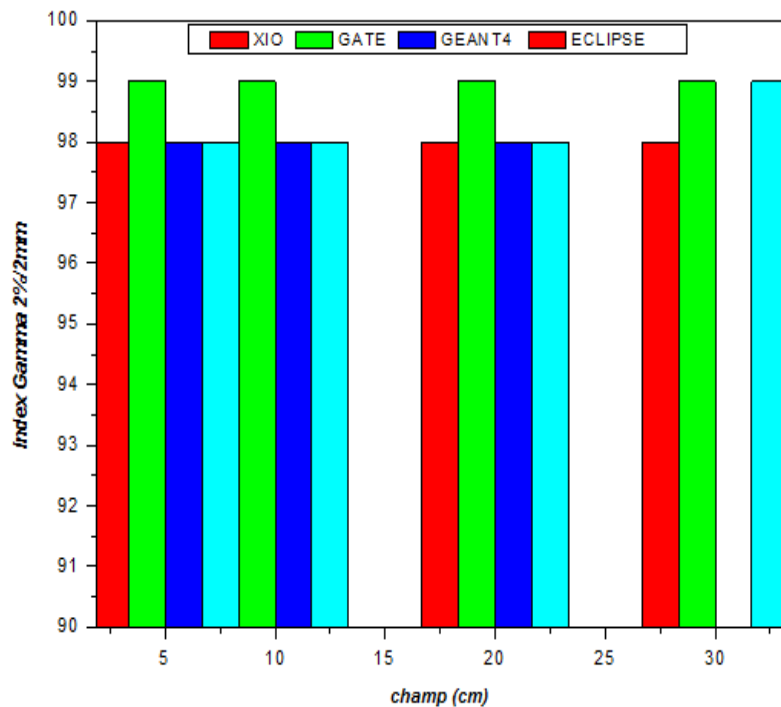
ERREUR



| FOC | MESURE | XIO | GATE | GEANT | ECLIPSE |
|-------|---------|---------|---------|-------|---------|
| 5x5 | 0.9468 | 0.9464 | 0.9548 | 0.954 | 0.94797 |
| 10x10 | 1 | 1 | 1 | 1 | 1 |
| 20x20 | 1.03878 | 1.04167 | 1.04106 | 1.041 | 1.03754 |
| 30x30 | 1.0585 | 1.0625 | 1.0558 | xxxxx | 1.061 |

| ERREUR | XIO | GATE | GEANT | ECLIPSE |
|--------|--------|--------|--------|---------|
| 5x5 | 0.0406 | 0.8386 | 0.7547 | 0.1216 |
| 10x10 | 0 | 0 | 0 | 0 |
| 20x20 | 0.2775 | 0.2136 | 0.2133 | 0.1187 |
| 30x30 | 0.3732 | 0.25 | | 0.2345 |

INDEX GAMMA (2%/2mm) de PDD



TPR

| | TPR | Erreur |
|---------|--------|--------|
| MESURE | 0.685 | ref |
| XIO | 0.6847 | 0.0421 |
| GATE | 0.677 | 1.0339 |
| GEANT | 0.692 | 1.0116 |
| ECLIPSE | 0.688 | 0.4425 |