

## Publications of Gopal Prasad

1. *Strong rigidity of  $\mathbf{Q}$ -rank 1 lattices*  
Inventiones Math. **21**(1973), 255-286.
2. *Unipotent elements and isomorphism of lattices in semi-simple groups*  
J. Indian Math. Soc. **37** (1973), 103-124.
3. *Triviality of certain automorphisms of semi-simple groups over local fields*  
Math. Annalen **218**(1975), 219-227.
4. *Discrete subgroups isomorphic to lattices in semi-simple Lie groups*  
Amer. J. Math. **98**(1976), 241-261.
5. *Discrete subgroups isomorphic to lattice in Lie groups*  
Amer. J. Math. **98**(1976), 853-863.
6. *Non-vanishing of the first cohomology*  
Bull. Soc. Math. France **105**(1977), 415-418.
7. *Strong approximation for semi-simple groups over function fields*  
Annals of Math. **105**(1977), 553-572.
8. *Lattices in semi-simple groups over local fields*  
Adv. in Math. Studies in Algebra and Number Theory, 1979, 285-356.
9. *Tame component of the Schur multiplier of finite groups of Lie type*  
J. Algebra **79**(1982), 235-240.
10. *Elementary proof of a theorem of Bruhat-Tits-Rousseau and of a theorem of Tits* Bull. Soc. Math. France **110**(1982), 197-202.
11. *On the "wild" norm residue symbol in an abelian extension*  
Math. Annalen **274**(1986), 419-422.
12. *A variant of a theorem of Calvin Moore*  
C. R. Acad. Sc. Paris, **302** (1986), 405-408.
13. *Volumes of  $S$ -arithmetic quotients of semi-simple groups*  
Publ. Math. IHES **69**(1989), 91-117.
14. *Semi-simple groups and arithmetic subgroups*  
Proc. Int. Congress of Math., Kyoto, 1990, Vol. II, 821-832.
15.  *$\mathbf{R}$ -regular elements in Zariski-dense subgroups*  
Q. J. Math., Oxford, **45**(1994), 541-545.
16. *Galois-fixed points in the Bruhat-Tits building of a reductive group*  
Bull. Soc. Math. France **129**(2001), 169-174.

17. *On some work of Raghunathan*  
Proc. Int. Conf. on Algebraic Groups and Arithmetic, TIFR,  
Mumbai (2001), 25-40.
18. *Deligne's topological central extension is universal*  
Adv. Math. **181**(2004), 160-164.
19. *Borel's contributions to arithmetic groups and their cohomology*  
Gazette des Math. **102**(2004), 15-22.
20. *On the Kneser-Tits problem for triality forms*  
Commentarii Math. Helv. **83**(2008), 913-925.
21. *Weakly-split spherical Tits systems in quasi-reductive groups.*  
Amer. J. Math. **136**(2014), 807-832.
22. *A new approach to unramified descent in Bruhat-Tits theory*, preprint.

**With Armand Borel:**

1. *Sous-groupes discrets de groupes  $p$ -adiques à covolume borné*  
C. R. Acad. Sci. Paris, **305**(1987), 357-362.
2. *Valeurs de formes quadratiques aux points entiers*  
C. R. Acad. Sc. Paris, **307**(1988), 217-220.
3. *Finiteness theorems for discrete subgroups of bounded covolume in semi-simple groups*  
Publ. Math. IHES **69**(1989), 119-171; Addendum: *ibid*, **71** (1990).
4. *Values of isotropic quadratic forms at  $S$ -integral points*  
Compositio Math. **83**(1992), 347-372.

**With Brian Conrad:**

1. *Classification of pseudo-reductive groups*  
Annals of Math. Studies, Princeton U. Press (2015).
2. *Structure and classification of pseudo-reductive groups*,  
Proc. Symp. Pure Math., AMS (2016), 150 pages.

**With Brian Conrad and Ofer Gabber:**

1. *Pseudo-reductive groups*, 2nd edition  
New Mathematical Monographs # 26  
Cambridge U. Press, May 2015.

**With Allen Moy:**

1. *Unrefined minimal  $K$ -types for  $p$ -adic groups*  
Inventiones Math. **116**(1994), 393-408.
2. *Jacquet functors and unrefined minimal  $K$ -types*  
Commentarii Math. Helv. **71**(1996), 98-121.
3. *Refined cosets in the Lie algebra of a reductive  $p$ -adic group*, preprint.

**With M.S. Raghunathan:**

1. *Cartan subgroups and lattices in semi-simple groups*  
Annals of Math. **96**(1972), 296-317.
2. *On the congruence subgroup problem: Determination of the “Metaplectic Kernel”* Inventiones Math. **71**(1983), 21-42.
3. *Tame subgroup of a semi-simple group over a local field*  
Amer. J. Math. **105**(1983), 1023-1048.
4. *Topological central extensions of semi-simple groups over local fields*  
Annals of Math. **119**(1984), 143-268.
5. *On the Kneser-Tits problem*  
Commentarii Math. Helv. **60**(1985), 107-121.
6. *Topological central extensions of  $SL_1(D)$*   
Inventiones Math. **92**(1988), 645-689.

**With A. S. Rapinchuk:**

1. *Computation of the metaplectic kernel*  
Publ. Math. IHES **84**(1996), 91-187.
2. *Irreducible tori in semi-simple groups*  
IMRN, 2001, 1229-1242; Erratum: IMRN 2002, 919-921.
3. *Subnormal subgroups of the group of rational points of reductive algebraic groups*  
Proc. AMS **130**(2002), 2219-2227.
4. *Existence of irreducible  $\mathbf{R}$ -regular elements in Zariski-dense subgroups*  
Math. Res. Letters **10**(2003), 21-32.
5. *Zariski-dense subgroups and transcendental number theory*  
Math. Res. Letters **12**(2005), 239-249.
6. *On the existence of isotropic forms of semi-simple algebraic groups*

*over number fields with prescribed local behavior*

Adv. Math. **207**(2006), 646-660.

7. *Weakly commensurable arithmetic groups and isospectral locally symmetric spaces*, Publ. Math. IHES **109**(2009), 113-184.
8. *Number theoretic techniques in the theory of Lie groups and differential geometry*, in “Fourth International Congress of Chinese Mathematicians”, AMS/IP Studies in Advanced Mathematics, vol. 48, AMS(2010), pp. 231-250.
9. *Local-global principles for embedding of fields with involution into simple algebras with involution*  
Commentarii Math. Helv. **85**(2010), 583-645.
10. *Developments on the congruence subgroup problem after the work of Bass, Milnor and Serre*  
In “Collected papers of John Milnor”, vol. V, AMS (2010), 307-325.
11. *On the fields generated by the lengths of closed geodesics in locally symmetric spaces*, Geom Dedicata (2013), 42 pp.
12. *Generic elements in Zariski-dense subgroups and isospectral locally symmetric spaces*, In “Thin Groups and superstrong approximation” MSRI Publications, vol. **61**, Cambridge U. Press (2014), 211-252.
13. *Weakly commensurable groups, with applications to differential geometry*  
In “Handbook of Group Actions, vol. I”, pp. 495-524.
14. *On the congruence kernel for simple algebraic groups*,  
Proc. Steklov Inst. Math. **292** (2016), 216-246.
15. *Generic elements of a Zariski-dense subgroup form an open subset*, preprint, 2016.

**With Sai-Kee Yeung:**

1. *Fake projective planes*  
Inventiones Math. **168**(2007), 321-370.
2. *Arithmetic fake projective spaces and arithmetic fake Grassmannians*  
Amer. J. Math. **131**(2009), 379-407.
3. *Addendum to “Fake projective planes”*  
Inventiones Math. **182**(2010), 213-227.
4. *Nonexistence of arithmetic fake compact hermitian symmetric spaces of type other than  $A_n$  ( $n \leq 4$ )*, J. Math. Soc. Japan **64**(2012), 683-731.

5. *Arithmetic fake compact Hermitian symmetric spaces of type  $A_3$* , preprint, 2016.

**With Jiu-Kang Yu:**

1. *On finite group actions on reductive groups and buildings*  
Inventiones Math. **147**(2002), 545-560.
2. *On quasi-reductive group schemes*  
J. Alg. Geom. **15**(2006), 507-549.